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CLIENT: **ENSR**

PROJECT: **UPGRADIENT INVESTIGATION, TRONOX**

SDG: **06C119**

** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax:(310) 618-0818

Date: 04-06-2006
EMAX Batch No.: 06C119

Attn: Linda Geddes

MWH
750 Royal Oaks Dr, Suite 100
Monrovia CA 91016-3629

Subject: Laboratory Report
Project: Upgradient Investigation, Tronox

Enclosed is the Laboratory report for samples received on 03/14/06.
The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
TR-10A	C119-01	03/13/06	WATER	VOLATILE ORGANICS BY GC/MS
				GASOLINE RANGE ORGANICS
				ETHYLENE GLYCOL
				METHANOL & ETHANOL
PUMP BLANK	C119-02	03/13/06	WATER	VOLATILE ORGANICS BY GC/MS
				GASOLINE RANGE ORGANICS
				MOTOR OIL
				ETHYLENE GLYCOL
				DIESEL RANGE ORGANICS
				METHANOL & ETHANOL

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning
these results.

Sincerely yours,

Kam Y. Pang, Ph.D.
Laboratory Director

ENSR INTERNATIONAL

ENSR International
1220 Avenida Acaso
Camarillo, CA 93012-8738
Phone (805) 388-3775
Fax (805) 388-3577

ANALYTICAL LAB: EMAX Labs
Torrance, CA
(310) 618-8889

HS

06C119

SITE Henderson DATE 3/13/06 PAGE 1 OF 1

CLIENT Tronox LLC
PROJECT NAME: Upgradient Investigation
PROJECT MANAGER: Dave Berry
JOB #: 04020-023-150
COELT LOG CODE: YES (NO)
SAMPLER SIGNATURE Brian Ho
Brian Ho

LINE ITEM	SAMPLE NO.	DATE	TIME	8260B / 5035 Volatile Organics	8260B BTEX / MTBE / Oxygenates	8015 Diesel / Gasoline / Full Range	8081A Pesticides	CAM 17 Metals	Fuel Alcohols 8015B	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	OBSERVATIONS/ COMMENTS
1.	TR-10A	3/13/06	14:30	X		X			X	W	G	12	
2.													
3.													
4.													
5.													
6.													
7.													
8.													
9.													
10.													

TURN-AROUND TIME: Standard

MATRIX TYPE: S - Soil, W - Water, O - Other
CONTAINER TYPE: G - Glass Bottle, P - Plastic, O - Other

PRESERVATIVES: All samples are preserved on ice. Water samples are preserved as indicated on the sample labels.

T = 4.3 °C

TEMPERATURE BLANK EACH COOLER: [X] YES [ ] NO

RELINQUISHED BY:	SIGNATURE		DATE	TIME	TOTAL NUMBER OF CONTAINERS:
Brian Ho	Brian Ho	ENSR International	3/13/06	16:40	
RECEIVED BY: Federal Express # 8562	SIGNATURE	COMPANY 4167 0231	DATE 3/13/06	TIME 16:40	METHOD OF SHIPMENT Federal Express
RELINQUISHED BY:	SIGNATURE	COMPANY	DATE	TIME	SPECIAL SHIMENT/HANDLING/STORAGE REQUIREMENTS:
RECEIVED BY J. LUNA	SIGNATURE	COMPANY emax	DATE 3/14/06	TIME 0930	

DISTRIBUTION: White and Canary = Laboratory Pink = ENSR International

Serial No. 5146

ENSR | AECOM

ENSR
1220 Avenida Acaso, Camarillo, California 93012-8738
T 805.388.3775 F 805.388.3577 www.ener.aecom.com

Facsimile

Deliver to:

Name: Ye Myint
Firm: EMAX Laboratories, Inc
Fax number: (310) 618-0818
Phone number:
Project number: 04020-023-150

From:

Name: Brian Ho - Guest at Holiday Inn Express, Room 231
Direct line:
Date transmitted: 3/13/06
Pages to follow: 1

Subject: Correction to Chain of Custody #: 5146

Message

Hello Ye:

On Tuesday (3/14), you will receive three ice chests from me. One of the ice chest contains water samples accompanied by Chain of Custody Form #5146. On that form, I forgot to list a Pump Blank sample even though the sample bottles for the Pump Blank are contained within. ~~The~~ Attached to this fax is the corrected Chain-of-Custody, which shows samples TR-10A and the Pump Blank sample.

Call me (805) 795-3334 if you have any questions.

Thanks,

Brian

ENSR International
1220 Avenida Acaso
Camarillo, CA 93012-8738
Phone (805) 388-3775
Fax (805) 388-3577

ANALYTICAL LAB: EMAX Labs 06C119

H6 / VW1-36 / 38

SITE Henderson DATE 3/13/06 PAGE 1 OF 1

CLIENT Tronox LLC

PROJECT NAME: Upgradient Investigation

PROJECT MANAGER: [illegible]

JOB #: [illegible]

COELT LOG CODE: YES (NO)

SAMPLER SIGNATURE: [illegible]

LINE ITEM	SAMPLE NO.	DATE	TIME	8260B / 5035 Volatile Organics	8260B BTEX / MTBE / Oxygenates	8015 Diesel / Gasoline (Full Range)	8081A Pesticides	CAM 17 Metals	Fuel oxygenates 8015B	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	TURN-AROUND TIME / OBSERVATIONS/ COMMENTS
1.	TR-10A	3/13/06	14:30	X		X			X	W	G	12	
2.	Pump Blank	3/13/06	10:45	X		X			X	W	G	12	
3.													
4.													
5.													
6.													
7.													
8.													
9.													
10.													

MATRIX TYPE: S - Soil, W - Water, O - Other

CONTAINER TYPE: G - Glass Bottle, P - Plastic, O - Other

PRESERVATIVES: All samples are preserved on ice. Water samples are preserved as indicated on the sample labels. T = 4.3 °C

TEMPERATURE BLANK EACH COOLER: [X] YES [ ] NO

RELINQUISHED BY:	SIGNATURE	COMPANY	DATE	TIME	TOTAL NUMBER OF CONTAINERS:
Brian H2	[signature]	ENSR International	3/13/06	16:40	
RECEIVED BY: Federal Express #2 8502	SIGNATURE	COMPANY 4167 0231	DATE 3/13/06	TIME 16:40	METHOD OF SHIPMENT Federal Express
RELINQUISHED BY:	SIGNATURE	COMPANY	DATE	TIME	SPECIAL SHIMENT/HANDLING/STORAGE REQUIREMENTS:
RECEIVED BY J. LUNA	SIGNATURE [signature]	COMPANY emax	DATE 3/14/06	TIME 0931	

DISTRIBUTION: White and Canary = Laboratory Pink = ENSR International

Serial No. 5116

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill		
☐ EMAX Courier		ECN	06C119
☐ Client Delivery		Recepient	Luna
☑ Third Party	Fedex 856246670231	Date	3-14-06
		Time	09:30

COC Inspection

☑ Client Name	☑ Sampler Name	☑ Sampling Date/Time/Location
☑ Address	☐ Courier Signature/Date/Time	☑ Analysis Required
☑ Client PM/FC	☐ TAT	☑ Matrix
☑ Tel #/Fax #	☑ Sample ID	☐ Preservative (if any)
Safety Issues ☑ None	☐ High Concentrations expected	☐ Superfund Site Samples
Comments: ☐ Rad Screening Required		

Packaging Inspection

Container	☑ Cooler	☐ Box	☐	☐
Condition	☐ Custody Seal	☐ Intact	☑ Damaged	☐
Packaging	☐ Bubble Pack	☐ Styrofoam	☐ Sufficient	☐
Temperatures	☑ Cooler 1 9.3	☑ Cooler 2 ____	☐ Cooler 3 ____	☐ Cooler 4 ____
	☐ Cooler 5 ____	☐ Cooler 6 ____	☐ Cooler 7 ____	☐ Cooler 8 ____
	☐ Cooler 9 ____	☐ Cooler 10 ____	☐ Cooler 11 ____	☐ Cooler 12 ____

Comments:

LSCID	Client ID	Discrepancy	Corrective Action
		No collection time on bottles	
C119-01		Both number of bottles for 8015E were received broken.	Informed client. Cancel TPH-E.
C119-02		Rec. eleven containers COC reads twelve	

LSCID : Lab Sample Container ID

REVIEWS

Sample Labeling Luna Date 3/14/06

SRF [illegible] Date 3/15/06

PM [illegible] Date 3/15/06

FedEx. US Airbill
Express

FedEx Tracking Number 8562 4167 0231

Form ID No. 0200

Recipient's Copy

1 From

Date 3/13/06

Sender's Name Brian Hb Phone 805 795-3334

Company ENSR 06C119

Address 1220 Avenida Acaso

Dept./Floor/Suite/Room

City Camarillo State CA ZIP 93012

2 Your Internal Billing Reference 04020-023-150

3 To

Recipient's Name Ye Myint Phone 310 618-8889

Company EMAX Labs.

Recipient's Address 1835 West 205th Street

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City Torrance State CA ZIP 90501

8562 4167 0231

4a Express Package Service *Packages up to 150 lbs.*

- [X] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate.

* To most locations.

4b Express Freight Service *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation:

** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [X] Other

* Declared value limit $500.

6 Special Handling — Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight.
- [ ] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No. [ ]

- [X] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages	Total Weight	Total Declared Value†	Total Charges
1		$ 300 .00	Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See back for details.

8 *NEW* Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Anyone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, anyone at a neighboring address may sign for delivery. *Fee applies.*

520

Ye Myint

From: Ye Myint
Sent: Tuesday, March 14, 2006 1:37 PM
To: 'Kennedy, Robert'
Cc: Linda Geddes; bho@ensr.aecom.com; Bilodeau, Sally
Subject: COCs/SRFs for 06C119 and 06C120

Robert,

Attached please find the COCs/SRFs for samples received today at EMAX. I spike with Brian regarding sample TR-10A (EMAX C119-01) this morning. Both 1L Ambers were received broken for TPH-E. We will cancel the analysis since no extra bottles left for the extraction. Please contact me with any questions. Thanks.

Linda: Samples are ready for the pick-up.

Ye Myint
EMAX Laboratories, Inc.
1835 W 205th. St.
Torrance, CA 90501
Phone: (310) 618-8889 x121
Fax: (310) 618-0818
E-mail: ymyint@emaxlabs.com

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

ENSR

UPGRADIENT INVESTIGATION, TRONOX

METHOD SW5030B/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 06C119

CASE NARRATIVE

CLIENT: **ENSR**

PROJECT: **UPGRADIENT INVESTIGATION, TRONOX**

SDG: **06C119**

SW 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Two (2) water samples were received on 03/14/06 for Volatile Organic analysis by Method 5030B/8260B in accordance with USEPA SW846, 3rd ed.

1. **Holding Time**

   Analytical holding time was met.

2. **Tuning and Calibration**

   Tuning and calibration were carried out at 12-hour interval. All QC requirements were met.

3. **Method Blank**

   Method blank was free of contamination at reporting limit.

4. **Surrogate Recovery**

   Recoveries were within QC limits.

5. **Lab Control Sample/Lab Control Sample Duplicate**

   All recoveries were within QC limits.

6. **Matrix Spike/Matrix Spike Duplicate**

   No MS/MSD sample was analyzed for this SDG.

7. **Sample Analysis**

   Samples were analyzed according to the prescribed QC procedures. All requirements were met.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : ENSR
Project : UPGRADIENT INVESTIGATION, TRONOX

SDG NO. : 06C119
Instrument ID : T-003

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	V003C26B	1	NA	03/17/0621:12	03/17/0621:12	RCB304	RBB058	V003C26	Method Blank
LCS1W	V003C26L	1	NA	03/17/0619:58	03/17/0619:58	RCB302	RBB058	V003C26	Lab Control Sample (LCS)
LCD1W	V003C26C	1	NA	03/17/0620:35	03/17/0620:35	RCB303	RBB058	V003C26	LCS Duplicate
TR-10A	C119-01	1	NA	03/18/0600:54	03/18/0600:54	RCB310	RBB058	V003C26	Field Sample
PUMP BLANK	C119-02	1	NA	03/18/0601:32	03/18/0601:32	RCB311	RBB058	V003C26	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

SW 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: ENSR	Date Collected:	03/13/06
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/14/06
Batch No.	: 06C119	Date Extracted:	03/18/06 00:54
Sample ID:	TR-10A	Date Analyzed:	03/18/06 00:54
Lab Samp ID:	C119-01	Dilution Factor:	1
Lab File ID:	RCB310	Matrix :	WATER
Ext Btch ID:	V003C26	% Moisture :	NA
Calib. Ref.:	RBB058	Instrument ID :	T-003

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	5	1
1,1,1-TRICHLOROETHANE	ND	5	1
1,1,2,2-TETRACHLOROETHANE	ND	5	1
1,1,2-TRICHLOROETHANE	ND	5	1
1,1-DICHLOROETHANE	ND	5	1
1,1-DICHLOROETHENE	ND	5	1
1,1-DICHLOROPROPENE	ND	5	1
1,2,3-TRICHLOROBENZENE	ND	5	1
1,2,3-TRICHLOROPROPANE	ND	5	1
1,2,4-TRICHLOROBENZENE	ND	5	1
1,2,4-TRIMETHYLBENZENE	ND	5	1
1,2-DIBROMO-3-CHLOROPROPANE	ND	5	1
1,2-DICHLOROBENZENE	ND	5	1
1,2-DICHLOROETHANE	ND	5	1
1,2-DICHLOROPROPANE	ND	5	1
1,2-DIBROMOETHANE	ND	5	1
1,3,5-TRIMETHYLBENZENE	ND	5	1
1,3-DICHLOROBENZENE	ND	5	1
1,3-DICHLOROPROPANE	ND	5	1
1,4-DICHLOROBENZENE	ND	5	1
1-CHLOROHEXANE	ND	5	1
2,2-DICHLOROPROPANE	ND	5	1
2-CHLOROTOLUENE	ND	5	1
4-CHLOROTOLUENE	ND	5	1
BENZENE	ND	5	1
BROMOBENZENE	ND	5	1
BROMOCHLOROMETHANE	ND	5	1
BROMODICHLOROMETHANE	ND	5	1
BROMOFORM	ND	5	1
BROMOMETHANE	ND	10	1
CARBON TETRACHLORIDE	ND	5	1
CHLOROBENZENE	ND	5	1
CHLOROETHANE	ND	5	1
CHLOROFORM	ND	5	1
CHLOROMETHANE	ND	5	1
CIS-1,2-DICHLOROETHENE	ND	5	1
CIS-1,3-DICHLOROPROPENE	ND	5	1
DIBROMOCHLOROMETHANE	ND	5	1
DIBROMOMETHANE	ND	5	1
DICHLORODIFLUOROMETHANE	ND	5	1
ETHYLBENZENE	ND	5	1
HEXACHLOROBUTADIENE	ND	10	1
ISOPROPYL BENZENE	ND	5	1
XYLENES	ND	10	2
METHYLENE CHLORIDE	ND	10	1
N-BUTYLBENZENE	ND	5	1
N-PROPYLBENZENE	ND	5	1
NAPHTHALENE	ND	5	1
P-ISOPROPYLTOLUENE	ND	5	1
SEC-BUTYLBENZENE	ND	5	1
STYRENE	ND	5	1
TERT-BUTYLBENZENE	ND	5	1
TETRACHLOROETHYLENE	ND	5	1
TOLUENE	ND	5	1
TRANS-1,2-DICHLOROETHENE	ND	5	1
TRANS-1,3-DICHLOROPROPENE	ND	5	1
TRICHLOROETHENE	ND	5	1
TRICHLOROFLUOROMETHANE	ND	5	1
VINYL CHLORIDE	ND	5	1
ACETONE	ND	10	5
2-BUTANONE	ND	10	5
MTBE	ND	5	1
4-METHYL-2-PENTANONE	ND	10	5
DIPE	ND	5	1
ETBE	ND	5	1
TAME	ND	5	1
TERT-BUTANOL	ND	50	10
2-HEXANONE	ND	10	5

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	108	70-140
4-BROMOFLUOROBENZENE	104	70-130
TOLUENE-D8	99	70-140

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C17\RCB310.D Vial: 14
Acq On : 18 Mar 2006 12:54 am Operator: CGM
Sample : 06C119-01 5.0mL Inst : TO03
Misc : DF=1.0 Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Mar 20 18:08 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.17	114	2098171	50.00	ug/l	0.01
37) CHLOROBENZENE-D5	17.08	117	2130926	50.00	ug/l	0.01
67) 1,2-DICHLOROBENZENE-D4	24.32	152	1089474	50.00	ug/l	0.00
System Monitoring Compounds						
36) 1,2-Dichloroethane-d4	10.54	65	1170052	54.14	ug/l	0.00
Spiked Amount 50.000			Recovery =	108.28%		
50) Toluene-d8	13.88	98	2390701	49.60	ug/l	0.00
Spiked Amount 50.000			Recovery =	99.20%		
71) 4-Bromofluorobenzene	20.10	95	1276490	51.87	ug/l	0.00
Spiked Amount 50.000			Recovery =	103.74%		

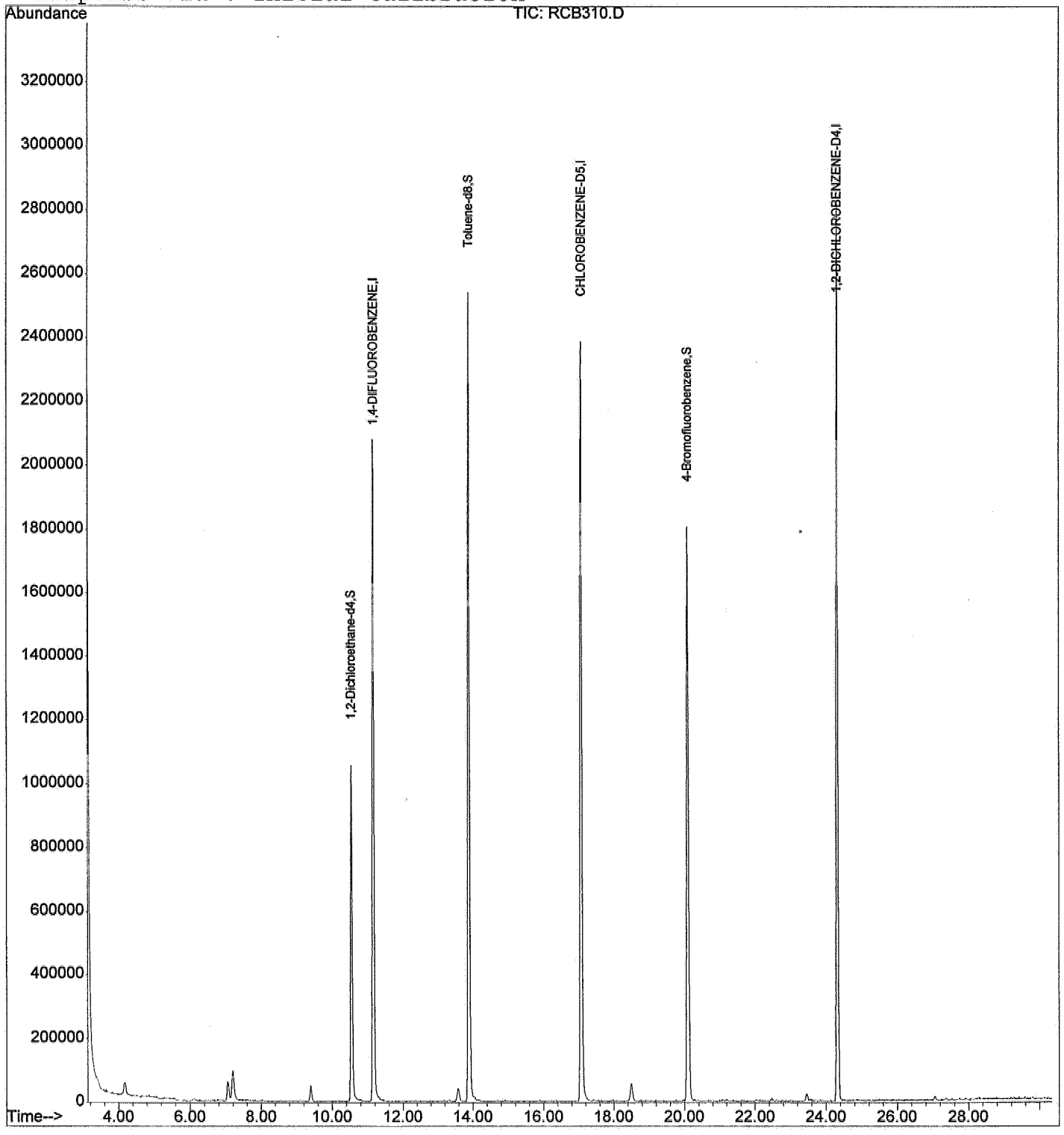
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C17\RCB310.D Vial: 14
Acq On : 18 Mar 2006 12:54 am Operator: CGM
Sample : 06C119-01 5.0mL Inst : TO03
Misc : DF=1.0 Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Mar 20 18:08 2006 Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



2006

SW 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: ENSR	Date Collected	: 03/13/06
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received	: 03/14/06
Batch No.	: 06C119	Date Extracted	: 03/18/06 01:32
Sample ID	: PUMP BLANK	Date Analyzed	: 03/18/06 01:32
Lab Samp ID	: C119-02	Dilution Factor	: 1
Lab File ID	: RCB311	Matrix	: WATER
Ext Btch ID	: V003C26	% Moisture	: NA
Calib. Ref.	: RBB058	Instrument ID	: T-003

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	5	1
1,1,1-TRICHLOROETHANE	ND	5	1
1,1,2,2-TETRACHLOROETHANE	ND	5	1
1,1,2-TRICHLOROETHANE	ND	5	1
1,1-DICHLOROETHANE	ND	5	1
1,1-DICHLOROETHENE	ND	5	1
1,1-DICHLOROPROPENE	ND	5	1
1,2,3-TRICHLOROBENZENE	ND	5	1
1,2,3-TRICHLOROPROPANE	ND	5	1
1,2,4-TRICHLOROBENZENE	ND	5	1
1,2,4-TRIMETHYLBENZENE	ND	5	1
1,2-DIBROMO-3-CHLOROPROPANE	ND	5	1
1,2-DICHLOROBENZENE	ND	5	1
1,2-DICHLOROETHANE	ND	5	1
1,2-DICHLOROPROPANE	ND	5	1
1,2-DIBROMOETHANE	ND	5	1
1,3,5-TRIMETHYLBENZENE	ND	5	1
1,3-DICHLOROBENZENE	ND	5	1
1,3-DICHLOROPROPANE	ND	5	1
1,4-DICHLOROBENZENE	ND	5	1
1-CHLOROHEXANE	ND	5	1
2,2-DICHLOROPROPANE	ND	5	1
2-CHLOROTOLUENE	ND	5	1
4-CHLOROTOLUENE	ND	5	1
BENZENE	ND	5	1
BROMOBENZENE	ND	5	1
BROMOCHLOROMETHANE	ND	5	1
BROMODICHLOROMETHANE	ND	5	1
BROMOFORM	ND	5	1
BROMOMETHANE	ND	10	1
CARBON TETRACHLORIDE	ND	5	1
CHLOROBENZENE	ND	5	1
CHLOROETHANE	ND	5	1
CHLOROFORM	ND	5	1
CHLOROMETHANE	ND	5	1
CIS-1,2-DICHLOROETHENE	ND	5	1
CIS-1,3-DICHLOROPROPENE	ND	5	1
DIBROMOCHLOROMETHANE	ND	5	1
DIBROMOMETHANE	ND	5	1
DICHLORODIFLUOROMETHANE	ND	5	1
ETHYLBENZENE	ND	5	1
HEXACHLOROBUTADIENE	ND	10	1
ISOPROPYL BENZENE	ND	5	1
XYLENES	ND	10	2
METHYLENE CHLORIDE	ND	10	1
N-BUTYLBENZENE	ND	5	1
N-PROPYLBENZENE	ND	5	1
NAPHTHALENE	ND	5	1
P-ISOPROPYLTOLUENE	ND	5	1
SEC-BUTYLBENZENE	ND	5	1
STYRENE	ND	5	1
TERT-BUTYLBENZENE	ND	5	1
TETRACHLOROETHYLENE	ND	5	1
TOLUENE	ND	5	1
TRANS-1,2-DICHLOROETHENE	ND	5	1
TRANS-1,3-DICHLOROPROPENE	ND	5	1
TRICHLOROETHENE	ND	5	1
TRICHLOROFLUOROMETHANE	ND	5	1
VINYL CHLORIDE	ND	5	1
ACETONE	ND	10	5
2-BUTANONE	ND	10	5
MTBE	ND	5	1
4-METHYL-2-PENTANONE	ND	10	5
DIPE	ND	5	1
ETBE	ND	5	1
TAME	ND	5	1
TERT-BUTANOL	ND	50	10
2-HEXANONE	ND	10	5

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	108	70-140
4-BROMOFLUOROBENZENE	105	70-130
TOLUENE-D8	104	70-140

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C17\RCB311.D Vial: 15
Acq On : 18 Mar 2006 1:32 am Operator: CGM
Sample : 06C119-02 5.0mL Inst : TO03
Misc : DF=1.0 Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Mar 20 18:08 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.16	114	2327053	50.00	ug/l	0.00
37) CHLOROBENZENE-D5	17.07	117	2215476	50.00	ug/l	0.00
67) 1,2-DICHLOROBENZENE-D4	24.32	152	1106564	50.00	ug/l	0.00
System Monitoring Compounds						
36) 1,2-Dichloroethane-d4	10.55	65	1290728	53.85	ug/l	0.00
Spiked Amount 50.000			Recovery = 107.70%			
50) Toluene-d8	13.89	98	2617774	52.24	ug/l	0.00
Spiked Amount 50.000			Recovery = 104.48%			
71) 4-Bromofluorobenzene	20.10	95	1306962	52.29	ug/l	0.00
Spiked Amount 50.000			Recovery = 104.58%			

Target Compounds Qvalue

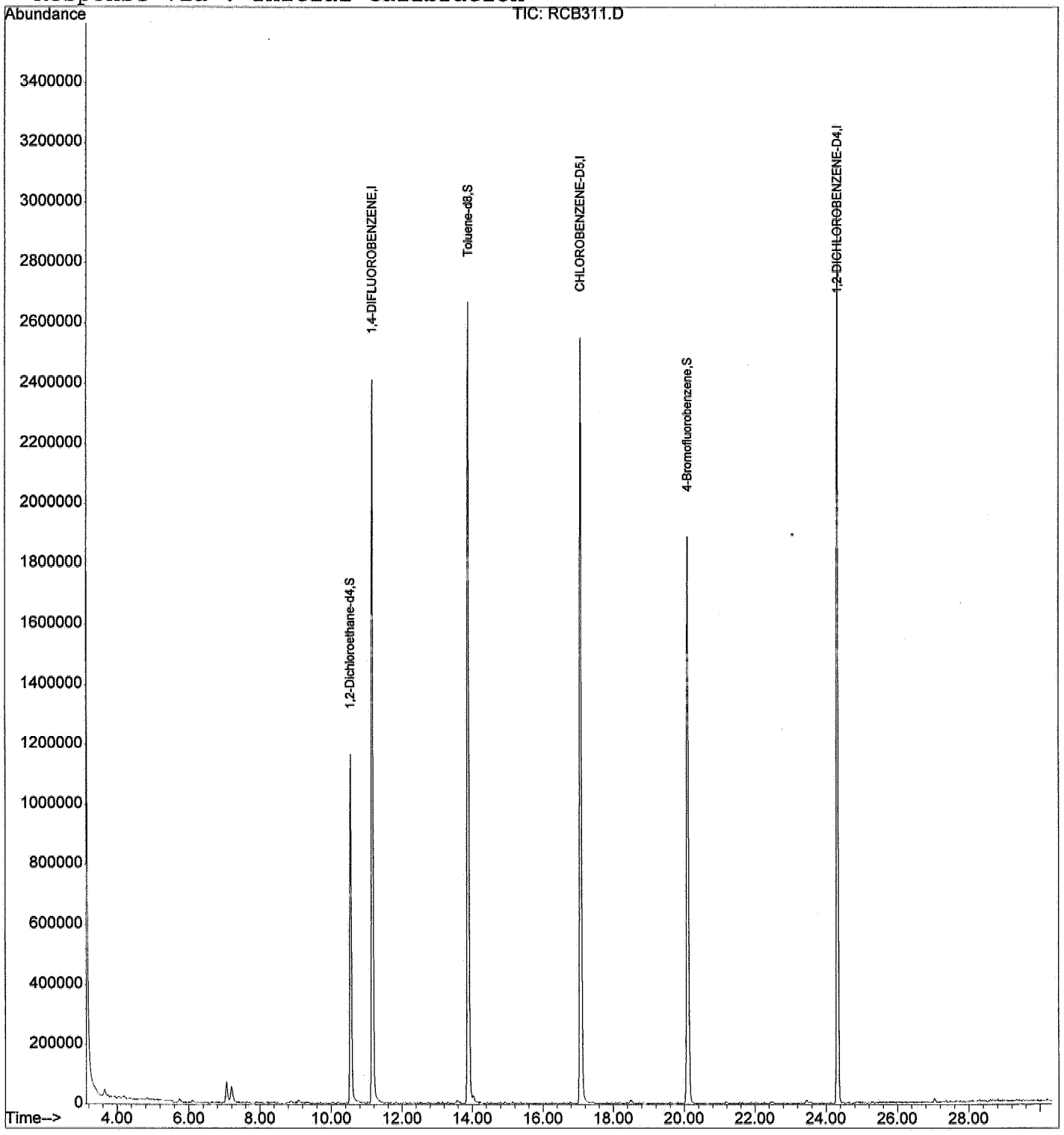
(#) = qualifier out of range (m) = manual integration

2008

Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C17\RCB311.D Vial: 15
Acq On : 18 Mar 2006 1:32 am Operator: CGM
Sample : 06C119-02 5.0mL Inst : TO03
Misc : DF=1.0 Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Mar 20 18:08 2006 Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



2089

QC SUMMARIES

SW 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : ENSR	Date Collected: NA
Project : UPGRADIENT INVESTIGATION, TRONOX	Date Received: 03/17/06
Batch No. : 06C119	Date Extracted: 03/17/06 21:12
Sample ID: MBLK1W	Date Analyzed: 03/17/06 21:12
Lab Samp ID: V003C26B	Dilution Factor: 1
Lab File ID: RCB304	Matrix : WATER
Ext Btch ID: V003C26	% Moisture : NA
Calib. Ref.: RBB058	Instrument ID : T-003

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	5	1
1,1,1-TRICHLOROETHANE	ND	5	1
1,1,2,2-TETRACHLOROETHANE	ND	5	1
1,1,2-TRICHLOROETHANE	ND	5	1
1,1-DICHLOROETHANE	ND	5	1
1,1-DICHLOROETHENE	ND	5	1
1,1-DICHLOROPROPENE	ND	5	1
1,2,3-TRICHLOROBENZENE	ND	5	1
1,2,3-TRICHLOROPROPANE	ND	5	1
1,2,4-TRICHLOROBENZENE	ND	5	1
1,2,4-TRIMETHYLBENZENE	ND	5	1
1,2-DIBROMO-3-CHLOROPROPANE	ND	5	1
1,2-DICHLOROBENZENE	ND	5	1
1,2-DICHLOROETHANE	ND	5	1
1,2-DICHLOROPROPANE	ND	5	1
1,2-DIBROMOETHANE	ND	5	1
1,3,5-TRIMETHYLBENZENE	ND	5	1
1,3-DICHLOROBENZENE	ND	5	1
1,3-DICHLOROPROPANE	ND	5	1
1,4-DICHLOROBENZENE	ND	5	1
1-CHLOROHEXANE	ND	5	1
2,2-DICHLOROPROPANE	ND	5	1
2-CHLOROTOLUENE	ND	5	1
4-CHLOROTOLUENE	ND	5	1
BENZENE	ND	5	1
BROMOBENZENE	ND	5	1
BROMOCHLOROMETHANE	ND	5	1
BROMODICHLOROMETHANE	ND	5	1
BROMOFORM	ND	5	1
BROMOMETHANE	ND	10	1
CARBON TETRACHLORIDE	ND	5	1
CHLOROBENZENE	ND	5	1
CHLOROETHANE	ND	5	1
CHLOROFORM	ND	5	1
CHLOROMETHANE	ND	5	1
CIS-1,2-DICHLOROETHENE	ND	5	1
CIS-1,3-DICHLOROPROPENE	ND	5	1
DIBROMOCHLOROMETHANE	ND	5	1
DIBROMOMETHANE	ND	5	1
DICHLORODIFLUOROMETHANE	ND	5	1
ETHYLBENZENE	ND	5	1
HEXACHLOROBUTADIENE	ND	10	1
ISOPROPYL BENZENE	ND	5	1
XYLENES	ND	10	2
METHYLENE CHLORIDE	ND	10	1
N-BUTYLBENZENE	ND	5	1
N-PROPYLBENZENE	ND	5	1
NAPHTHALENE	ND	5	1
P-ISOPROPYLTOLUENE	ND	5	1
SEC-BUTYLBENZENE	ND	5	1
STYRENE	ND	5	1
TERT-BUTYLBENZENE	ND	5	1
TETRACHLOROETHYLENE	ND	5	1
TOLUENE	ND	5	1
TRANS-1,2-DICHLOROETHENE	ND	5	1
TRANS-1,3-DICHLOROPROPENE	ND	5	1
TRICHLOROETHENE	ND	5	1
TRICHLOROFLUOROMETHANE	ND	5	1
VINYL CHLORIDE	ND	5	1
ACETONE	ND	10	5
2-BUTANONE	ND	10	5
MTBE	ND	5	1
4-METHYL-2-PENTANONE	ND	10	5
DIPE	ND	5	1
ETBE	ND	5	1
TAME	ND	5	1
TERT-BUTANOL	ND	50	10
2-HEXANONE	ND	10	5

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	100	70-140
4-BROMOFLUOROBENZENE	107	70-130
TOLUENE-D8	105	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
BATCH NO.: 06C119
METHOD: SW 5030B/8260B

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1W
LAB SAMP ID: V003C26B V003C26L V003C26C
LAB FILE ID: RCB304 RCB302 RCB303
DATE EXTRACTED: 03/17/0621:12 03/17/0619:58 03/17/0620:35 DATE COLLECTED: NA
DATE ANALYZED: 03/17/0621:12 03/17/0619:58 03/17/0620:35 DATE RECEIVED: 03/17/06
PREP. BATCH: V003C26 V003C26 V003C26
CALIB. REF: RBB058 RBB058 RBB058

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1,2-Tetrachloroethane	ND	20	21.3	107	20	23.3	117	9	70-130	30
1,1,1-Trichloroethane	ND	20	20.7	103	20	22	110	6	70-130	30
1,1,2,2-Tetrachloroethane	ND	20	19.9	99	20	21.9	110	10	70-130	30
1,1,2-Trichloroethane	ND	20	20.1	101	20	22.3	112	10	70-130	30
1,1-Dichloroethane	ND	20	20.7	104	20	22	110	6	70-130	30
1,1-Dichloroethene	ND	20	17.2	86	20	18.2	91	6	60-130	30
1,1-Dichloropropene	ND	20	18.8	94	20	20	100	6	70-140	30
1,2,3-Trichlorobenzene	ND	20	20.2	101	20	23.2	116	14	60-130	30
1,2,3-Trichloropropane	ND	20	19.8	99	20	21.1	106	7	70-140	30
1,2,4-Trichlorobenzene	ND	20	20.3	102	20	22.4	112	10	60-140	30
1,2,4-Trimethylbenzene	ND	20	20.6	103	20	22.1	111	7	70-130	30
1,2-Dibromo-3-chloropropane	ND	20	17.1	86	20	18.8	94	9	60-130	30
1,2-Dichlorobenzene	ND	20	20.3	102	20	22.1	110	8	70-130	30
1,2-Dichloroethane	ND	20	20.8	104	20	22	110	6	70-130	30
1,2-Dichloropropane	ND	20	20.8	104	20	21.4	107	3	70-130	30
1,2-Dibromoethane	ND	20	20.7	104	20	22.8	114	9	70-140	30
1,3,5-Trimethylbenzene	ND	20	21	105	20	22.6	113	7	70-130	30
1,3-Dichlorobenzene	ND	20	20.5	103	20	21.9	110	7	70-130	30
1,3-Dichloropropane	ND	20	21.1	106	20	22.7	113	7	70-130	30
1,4-Dichlorobenzene	ND	20	19.8	99	20	21.3	106	7	70-130	30
1-Chlorohexane	ND	20	21.5	107	20	23	115	7	70-130	30
2,2-Dichloropropane	ND	20	21.5	107	20	23.4	117	8	50-140	30
2-Chlorotoluene	ND	20	18.9	94	20	20.4	102	8	70-130	30
4-Chlorotoluene	ND	20	20.7	104	20	21.9	110	6	70-130	30
Benzene	ND	20	20.4	102	20	22.1	111	8	70-130	30
Bromobenzene	ND	20	20.6	103	20	22.4	112	8	70-130	30
Bromochloromethane	ND	20	19.8	99	20	21.1	105	6	70-130	30
Bromodichloromethane	ND	20	19.7	98	20	20.8	104	6	70-130	30
Bromoform	ND	20	17.2	86	20	18.3	92	7	60-140	30
Bromomethane	ND	20	17.4	87	20	19.3	96	10	50-140	30
Carbon Tetrachloride	ND	20	19.9	99	20	21.6	108	8	70-130	30
Chlorobenzene	ND	20	20.8	104	20	22.4	112	7	70-130	30
Chloroethane	ND	20	21.2	106	20	23.4	117	10	70-140	30
Chloroform	ND	20	21.3	107	20	22.6	113	6	70-130	30
Chloromethane	ND	20	17.8	89	20	19.4	97	9	60-130	30
cis-1,2-Dichloroethene	ND	20	20.7	103	20	21.9	109	6	70-130	30
cis-1,3-Dichloropropene	ND	20	19.4	97	20	20.8	104	7	70-130	30
Dibromochloromethane	ND	20	19.2	96	20	20.7	103	7	70-130	30
Dibromomethane	ND	20	20.3	101	20	21.6	108	6	70-140	30
Dichlorodifluoromethane	ND	20	17	85	20	18.7	94	10	50-140	30
Ethylbenzene	ND	20	21.2	106	20	23	115	8	70-130	30
Hexachlorobutadiene	ND	20	19.6	98	20	21.7	108	10	60-140	30
Isopropyl Benzene	ND	20	22.7	113	20	24.7	124	9	70-150	30
Xylenes	ND	60	64.1	107	60	69.2	115	8	70-130	30
Methylene Chloride	ND	20	19.5	98	20	20.7	104	6	70-130	30
n-Butylbenzene	ND	20	20.7	104	20	22.5	112	8	60-140	30
n-Propylbenzene	ND	20	20.7	103	20	22.3	111	7	70-130	30
Naphthalene	ND	20	19.7	99	20	22.6	113	14	50-140	30
p-Isopropyltoluene	ND	20	22.1	110	20	23.8	119	8	70-140	30
Sec-Butylbenzene	ND	20	19.6	98	20	21.4	107	9	70-130	30
Styrene	ND	20	20.2	101	20	21.7	109	7	70-130	30
Tert-Butylbenzene	ND	20	20.7	104	20	22.5	113	8	70-130	30
Tetrachloroethylene	ND	20	19.9	99	20	21.9	109	10	70-130	30
Toluene	ND	20	20.9	105	20	22.6	113	8	70-130	30
Trans-1,2-Dichloroethene	ND	20	19	95	20	20.4	102	7	70-130	30
Trans-1,3-Dichloropropene	ND	20	20.3	101	20	21.7	108	7	70-140	30
Trichloroethene	ND	20	19.3	97	20	21.1	106	9	70-130	30
Trichlorofluoromethane	ND	20	21.1	105	20	23.2	116	9	70-140	30
Vinyl Chloride	ND	20	17.3	86	20	19.4	97	11	60-150	30
Acetone	ND	80	87	109	80	96.7	121	11	50-150	30
2-Butanone	ND	80	90.9	114	80	98.9	124	8	60-140	30
MTBE	ND	20	21.2	106	20	22.8	114	7	70-140	30
4-Methyl-2-Pentanone	ND	80	95.7	120	80	107	133	11	60-140	30
DIPE	ND	20	22.3	112	20	23.7	119	6	70-140	30
ETBE	ND	20	23.5	117	20	25.2	126	7	60-140	30
TAME	ND	20	23.6	118	20	24.8	124	5	60-140	30
tert-Butanol	ND	100	108	108	100	121	121	11	60-150	30
2-Hexanone	ND	80	91.8	115	80	103	128	11	70-140	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50	52	104	50	51.8	104	70-140
4-Bromofluorobenzene	50	51.7	103	50	53.8	108	70-130
Toluene-d8	50	51.8	104	50	53	106	70-130

QC DATA

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C17\RCB304.D Vial: 8
Acq On : 17 Mar 2006 9:12 pm Operator: CGM
Sample : VO03C26B 5.0mL Inst : TO03
Misc : DF=1.0 MB Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Mar 20 17:55 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.17	114	2308513	50.00	ug/l	0.00
37) CHLOROBENZENE-D5	17.08	117	2156394	50.00	ug/l	0.00
67) 1,2-DICHLOROBENZENE-D4	24.32	152	1069293	50.00	ug/l	0.00
System Monitoring Compounds						
36) 1,2-Dichloroethane-d4	10.54	65	1190787	50.08	ug/l	0.00
Spiked Amount 50.000			Recovery = 100.16%			
50) Toluene-d8	13.88	98	2566317	52.61	ug/l	0.00
Spiked Amount 50.000			Recovery = 105.22%			
71) 4-Bromofluorobenzene	20.10	95	1294885	53.61	ug/l	0.00
Spiked Amount 50.000			Recovery = 107.22%			

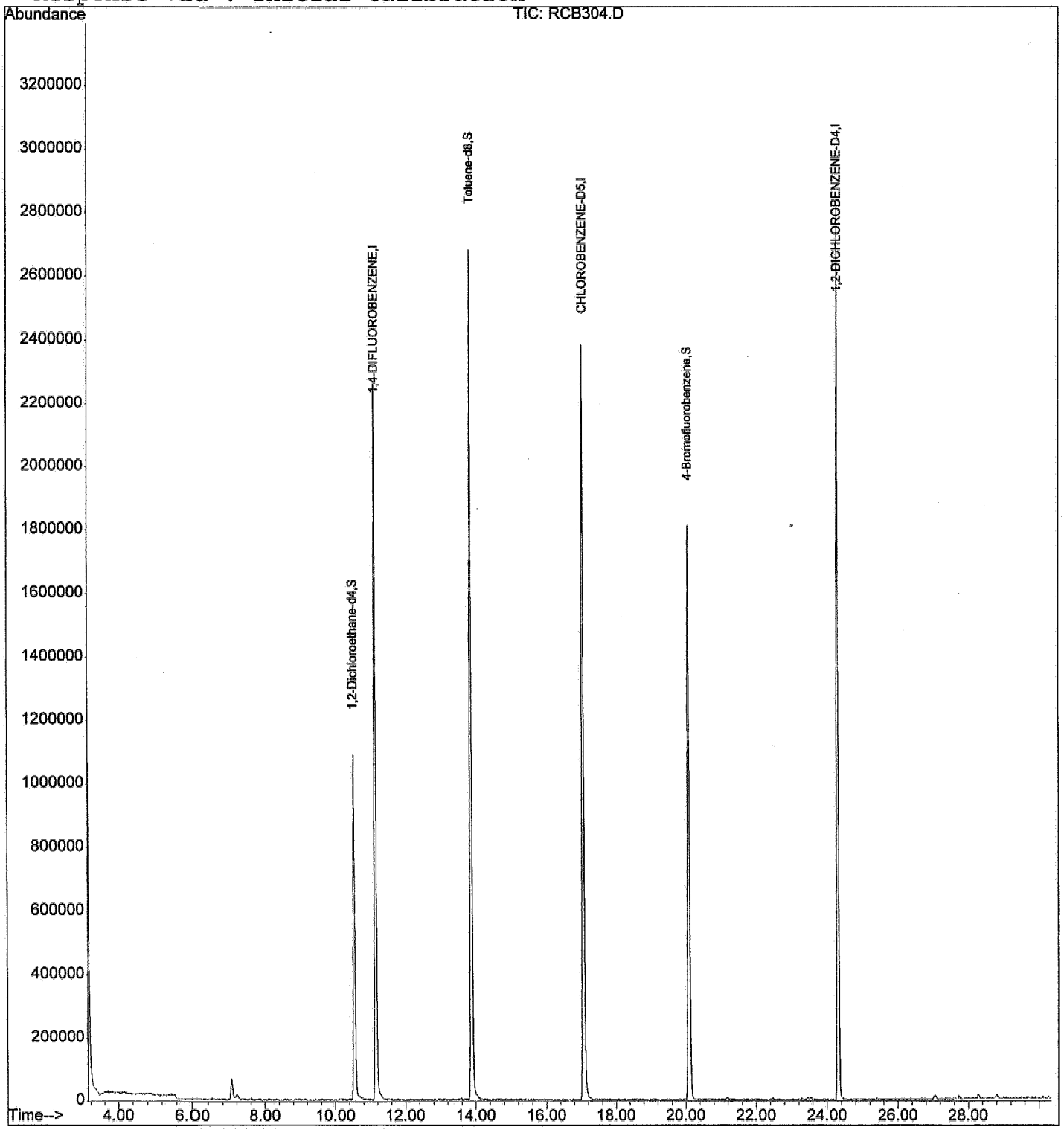
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C17\RCB304.D Vial: 8
Acq On : 17 Mar 2006 9:12 pm Operator: CGM
Sample : VO03C26B 5.0mL Inst : TO03
Misc : DF=1.0 MB Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Mar 20 17:55 2006 Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : d:\HPCHEM\1\DATA\06C17\RCB302.D Vial: 6
Acq On : 17 Mar 2006 7:58 pm Operator: CGM
Sample : VO03C26L 5.0mL Inst : TO03
Misc : 20ppb 8260/80ppb Ket-AA/100ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Mar 17 20:29 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.15	114	2480958	50.00	ug/l	0.00
37) CHLOROBENZENE-D5	17.08	117	2352083	50.00	ug/l	0.00
67) 1,2-DICHLOROBENZENE-D4	24.32	152	1229388	50.00	ug/l	0.00
System Monitoring Compounds						
36) 1,2-Dichloroethane-d4	10.54	65	1328322	51.98	ug/l	0.00
Spiked Amount 50.000			Recovery =	103.96%		
50) Toluene-d8	13.88	98	2754942	51.78	ug/l	0.00
Spiked Amount 50.000			Recovery =	103.56%		
71) 4-Bromofluorobenzene	20.10	95	1435229	51.68	ug/l	0.00
Spiked Amount 50.000			Recovery =	103.36%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.39	85	392099	17.00	ug/l	98
3) Chloromethane	3.82	50	512147	17.75	ug/l	99
4) Vinyl chloride	4.02	62	340594	17.27	ug/l	99
5) Bromomethane	4.78	94	231979	17.41	ug/l	100
6) Chloroethane	4.91	64	232941	21.21	ug/l	96
7) Trichlorofluoromethane	5.33	101	524822	21.09	ug/l	98
9) Acrolein	5.99	56	218989	105.57	ug/l	85
10) 1,1,2-Trichloro-1,2,2-trif	6.02	151	235997	19.45	ug/l	100
11) Acetone	6.10	43	667623	86.98	ug/l	98
12) 1,1-Dichloroethene	6.31	61	645641	17.19	ug/l	99
13) tert-Butyl alcohol	6.44	59	147164	108.36	ug/l	82
15) Iodomethane	6.81	142	316379	20.30	ug/l	97
16) Methyl acetate	6.81	43	65839	3.42	ug/l	92
17) Methylene chloride	7.05	49	791246	19.51	ug/l	98
18) Carbon disulfide	7.14	76	751710	14.08	ug/l	99
19) Acrylonitrile	7.23	53	544648	87.68	ug/l	98
20) tert-Butyl methyl ether (M	7.30	73	779588	21.22	ug/l	98
21) trans-1,2-Dichloroethene	7.52	61	684077	18.97	ug/l	99
22) Isopropyl ether (DIPE)	8.00	45	1765973	22.30	ug/l	98
23) 1,1-Dichloroethane	8.18	63	816488	20.73	ug/l	99
24) Vinyl acetate	8.15	43	841536	19.93	ug/l	100
25) tert-Butyl ethyl ether (ET	8.62	59	1195122	23.49	ug/l	99
26) 2-Butanone	8.82	43	942175	90.86	ug/l	99
27) 2,2-Dichloropropane	9.08	77	367647	21.47	ug/l	90
28) cis-1,2-Dichloroethene	9.14	61	791102	20.66	ug/l	99
30) Chloroform	9.40	83	777409	21.30	ug/l	99
31) Bromochloromethane	9.66	49	441297	19.80	ug/l	100
33) 1,1,1-Trichloroethane	10.07	97	562430	20.65	ug/l	98
35) tert-Amyl methyl ether (TA	10.48	73	846097	23.63	ug/l	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : d:\HPCHEM\1\DATA\06C17\RCB302.D Vial: 6
Acq On : 17 Mar 2006 7:58 pm Operator: CGM
Sample : VO03C26L 5.0mL Inst : TO03
Misc : 20ppb 8260/80ppb Ket-AA/100ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Mar 17 20:29 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	1,1-Dichloropropene	10.32	77	181309	18.82	ug/l	97
39)	Carbon tetrachloride	10.51	119	435885	19.90	ug/l	99
40)	1,2-Dichloroethane	10.69	62	736302	20.81	ug/l	100
41)	Benzene	10.76	78	1436194	20.44	ug/l	99
42)	Trichloroethene	11.77	130	354592	19.34	ug/l	99
44)	1,2-Dichloropropane	12.06	63	468026	20.82	ug/l	98
45)	Bromodichloromethane	12.47	83	516901	19.69	ug/l	100
46)	Dibromomethane	12.58	93	261622	20.30	ug/l	99
47)	2-Chloroethyl vinyl ether	12.90	63	200940	22.56	ug/l	98
48)	4-Methyl-2-pentanone	12.96	43	2387150	95.75	ug/l	99
49)	cis-1,3-Dichloropropene	13.38	75	524187	19.42	ug/l	95
51)	Toluene	14.03	91	1434613	20.92	ug/l	98
52)	Ethyl methacrylate	14.23	69	459204	20.74	ug/l	92
53)	trans-1,3-Dichloropropene	14.32	75	414787	20.28	ug/l	98
54)	1,1,2-Trichloroethane	14.64	97	296270	20.14	ug/l	98
55)	2-Hexanone	14.60	43	1523767	91.85	ug/l	100
56)	1,3-Dichloropropane	15.15	76	582900	21.14	ug/l	100
57)	Tetrachloroethene	15.37	164	313925	19.89	ug/l	99
58)	Dibromochloromethane	15.79	129	304148	19.22	ug/l	99
59)	1,2-Dibromoethane	16.22	107	286537	20.74	ug/l	99
60)	1-Chlorohexane	16.47	91	529471	21.49	ug/l	99
61)	Chlorobenzene	17.17	112	941130	20.82	ug/l	97
62)	1,1,1,2-Tetrachloroethane	17.23	131	315254	21.34	ug/l	99
63)	Ethylbenzene	17.24	91	1707245	21.21	ug/l	100
64)	m-Xylene & p-Xylene	17.42	91	2836298	42.87	ug/l	100
65)	o-Xylene	18.51	91	1457052	21.27	ug/l	99
66)	Styrene	18.58	104	950069	20.22	ug/l	99
68)	Bromoform	19.50	173	174094	17.18	ug/l	99
69)	Isopropylbenzene	19.41	105	1563822	22.68	ug/l	99
70)	1,1,2,2-Tetrachloroethane	19.83	83	415777	19.89	ug/l	99
72)	1,2,3-Trichloropropane	20.23	61	111453	19.78	ug/l	95
73)	trans-1,4-Dichloro-2-buten	20.39	53	91142	27.26	ug/l	92
74)	n-Propylbenzene	20.50	91	2070218	20.67	ug/l	100
75)	Bromobenzene	20.67	156	424446	20.62	ug/l	99
76)	2-Chlorotoluene	21.03	91	1185976	18.90	ug/l	99
77)	1,3,5-Trimethylbenzene	20.94	105	1402263	21.00	ug/l	100
78)	4-Chlorotoluene	21.15	91	1434751	20.72	ug/l	100
79)	tert-Butylbenzene	21.97	119	1113351	20.71	ug/l	97
80)	1,2,4-Trimethylbenzene	22.09	105	1401886	20.59	ug/l	99
81)	sec-Butylbenzene	22.61	105	1687765	19.62	ug/l	100
82)	p-Isopropyltoluene	22.99	119	1379329	22.09	ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : d:\HPCHEM\1\DATA\06C17\RCB302.D Vial: 6
Acq On : 17 Mar 2006 7:58 pm Operator: CGM
Sample : VO03C26L 5.0mL Inst : TO03
Misc : 20ppb 8260/80ppb Ket-AA/100ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Mar 17 20:29 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

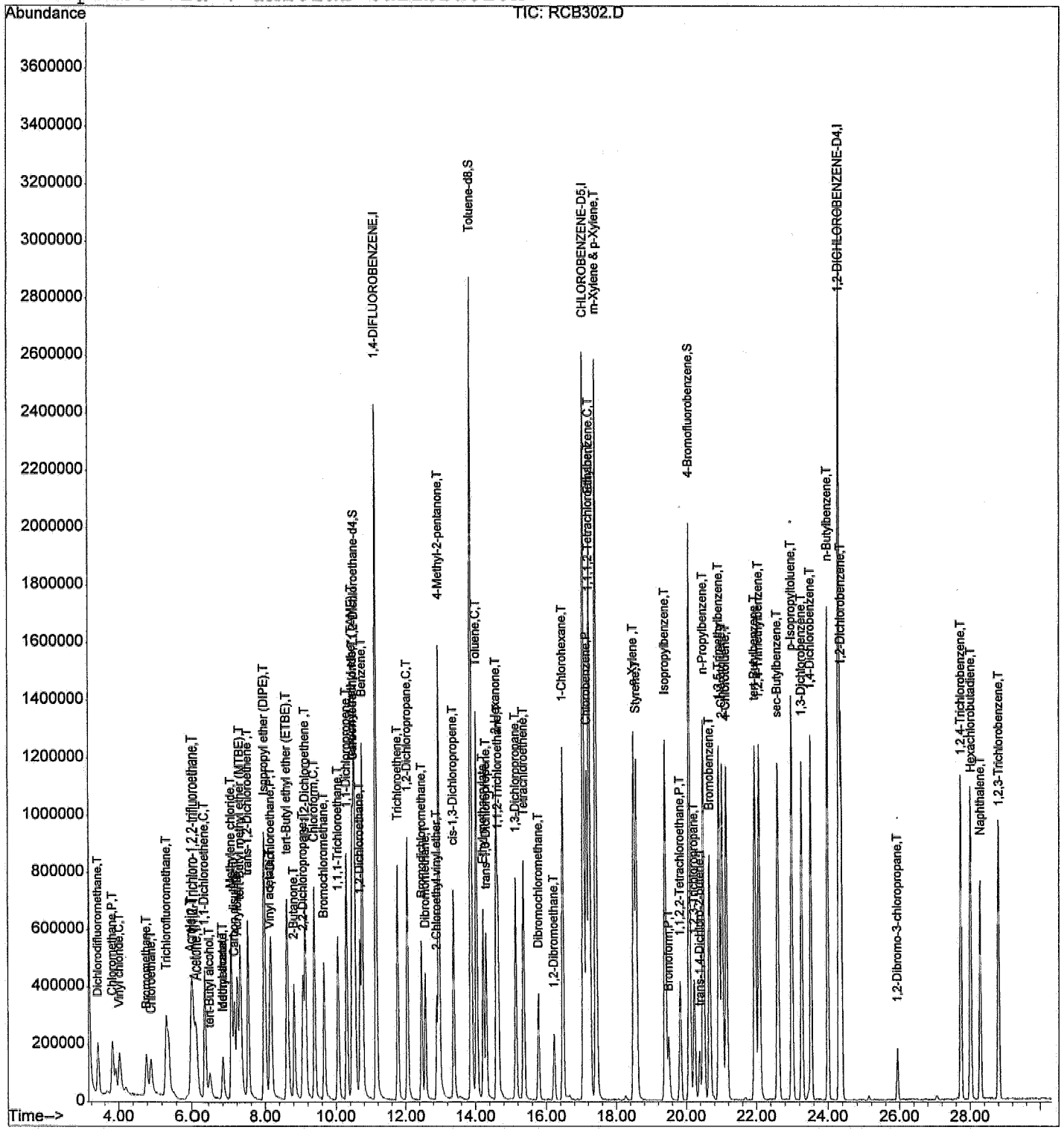
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83)	1,3-Dichlorobenzene	23.28	146	767548	20.52	ug/l	99
84)	1,4-Dichlorobenzene	23.53	146	752613	19.85	ug/l	97
85)	n-Butylbenzene	24.00	91	1506286	20.73	ug/l	100
86)	1,2-Dichlorobenzene	24.37	146	733870	20.32	ug/l	99
87)	1,2-Dibromo-3-chloropropan	25.93	157	55769	17.15	ug/l	96
88)	1,2,4-Trichlorobenzene	27.75	180	586432	20.30	ug/l	99
89)	Hexachlorobutadiene	28.03	225	464486	19.57	ug/l	99
90)	Naphthalene	28.30	128	956875	19.71	ug/l	100
91)	1,2,3-Trichlorobenzene	28.82	180	528851	20.18	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : d:\HPCHEM\1\DATA\06C17\RCB302.D Vial: 6
Acq On : 17 Mar 2006 7:58 pm Operator: CGM
Sample : VO03C26L 5.0mL Inst : TO03
Misc : 20ppb 8260/80ppb Ket-AA/100ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Mar 17 20:29 2006 Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : d:\HPCHEM\1\DATA\06C17\RCB303.D Vial: 7
Acq On : 17 Mar 2006 8:35 pm Operator: CGM
Sample : VO03C26C 5.0mL Inst : TO03
Misc : 20ppb 8260/80ppb Ket-AA/100ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Mar 17 21:06 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.15	114	2178004	50.00	ug/l	0.00
37) CHLOROBENZENE-D5	17.08	117	2023723	50.00	ug/l	0.01
67) 1,2-DICHLOROBENZENE-D4	24.32	152	1059504	50.00	ug/l	0.00
System Monitoring Compounds						
36) 1,2-Dichloroethane-d4	10.54	65	1163075	51.85	ug/l	0.00
Spiked Amount 50.000			Recovery =	103.70%		
50) Toluene-d8	13.89	98	2426177	53.00	ug/l	0.00
Spiked Amount 50.000			Recovery =	106.00%		
71) 4-Bromofluorobenzene	20.10	95	1287193	53.78	ug/l	0.00
Spiked Amount 50.000			Recovery =	107.56%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.39	85	378624	18.70	ug/l	97
3) Chloromethane	3.83	50	491895	19.42	ug/l	96
4) Vinyl chloride	4.02	62	332784	19.37	ug/l	99
5) Bromomethane	4.78	94	225503	19.28	ug/l	99
6) Chloroethane	4.90	64	225873	23.43	ug/l	96
7) Trichlorofluoromethane	5.33	101	506602	23.19	ug/l	99
9) Acrolein	5.98	56	199103	109.34	ug/l	85
10) 1,1,2-Trichloro-1,2,2-trif	6.02	151	219693	20.63	ug/l	98
11) Acetone	6.10	43	651490	96.68	ug/l	99
12) 1,1-Dichloroethene	6.31	61	600543	18.21	ug/l	98
13) tert-Butyl alcohol	6.44	59	144028	120.80	ug/l	81
15) Iodomethane	6.81	142	299524	21.89	ug/l	99
16) Methyl acetate	6.81	43	66317	3.92	ug/l	95
17) Methylene chloride	7.05	49	731957	20.71	ug/l	99
18) Carbon disulfide	7.14	76	699220	14.92	ug/l	99
19) Acrylonitrile	7.21	53	523228	95.95	ug/l	98
20) tert-Butyl methyl ether (M	7.30	73	739545	22.83	ug/l	100
21) trans-1,2-Dichloroethene	7.53	61	645814	20.40	ug/l	98
22) Isopropyl ether (DIPE)	7.99	45	1649441	23.73	ug/l	98
23) 1,1-Dichloroethane	8.18	63	759261	21.96	ug/l	99
24) Vinyl acetate	8.13	43	796613	21.49	ug/l	99
25) tert-Butyl ethyl ether (ET	8.63	59	1128109	25.17	ug/l	97
26) 2-Butanone	8.82	43	900148	98.88	ug/l	99
27) 2,2-Dichloropropane	9.09	77	351176	23.36	ug/l	94
28) cis-1,2-Dichloroethene	9.15	61	735856	21.89	ug/l	100
30) Chloroform	9.40	83	723310	22.58	ug/l	99
31) Bromochloromethane	9.67	49	412291	21.07	ug/l	99
33) 1,1,1-Trichloroethane	10.07	97	525551	21.98	ug/l	100
35) tert-Amyl methyl ether (TA	10.47	73	780595	24.83	ug/l	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : d:\HPCHEM\1\DATA\06C17\RCB303.D Vial: 7
Acq On : 17 Mar 2006 8:35 pm Operator: CGM
Sample : VO03C26C 5.0mL Inst : TO03
Misc : 20ppb 8260/80ppb Ket-AA/100ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Mar 17 21:06 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	1,1-Dichloropropene	10.32	77	165913	20.02	ug/l	95
39)	Carbon tetrachloride	10.50	119	407799	21.64	ug/l	99
40)	1,2-Dichloroethane	10.69	62	669495	21.99	ug/l	99
41)	Benzene	10.76	78	1337883	22.13	ug/l	99
42)	Trichloroethene	11.78	130	333198	21.12	ug/l	97
44)	1,2-Dichloropropane	12.06	63	413783	21.39	ug/l	96
45)	Bromodichloromethane	12.46	83	470484	20.83	ug/l	99
46)	Dibromomethane	12.56	93	239967	21.64	ug/l	98
47)	2-Chloroethyl vinyl ether	12.90	63	195241	25.48	ug/l	98
48)	4-Methyl-2-pentanone	12.96	43	2289543	106.73	ug/l	99
49)	cis-1,3-Dichloropropene	13.38	75	485938	20.76	ug/l	94
51)	Toluene	14.03	91	1335530	22.63	ug/l	98
52)	Ethyl methacrylate	14.23	69	431733	22.66	ug/l	93
53)	trans-1,3-Dichloropropene	14.30	75	386713	21.69	ug/l	97
54)	1,1,2-Trichloroethane	14.64	97	282726	22.33	ug/l	99
55)	2-Hexanone	14.60	43	1467339	102.80	ug/l	97
56)	1,3-Dichloropropane	15.15	76	537951	22.67	ug/l	99
57)	Tetrachloroethene	15.37	164	297065	21.88	ug/l	98
58)	Dibromochloromethane	15.77	129	284491	20.67	ug/l	100
59)	1,2-Dibromoethane	16.22	107	270944	22.80	ug/l	97
60)	1-Chlorohexane	16.47	91	488104	23.03	ug/l	98
61)	Chlorobenzene	17.17	112	872264	22.42	ug/l	98
62)	1,1,1,2-Tetrachloroethane	17.23	131	296537	23.33	ug/l	99
63)	Ethylbenzene	17.24	91	1593002	23.00	ug/l	99
64)	m-Xylene & p-Xylene	17.42	91	2651545	46.59	ug/l	100
65)	o-Xylene	18.51	91	1333390	22.63	ug/l	99
66)	Styrene	18.58	104	879216	21.75	ug/l	99
68)	Bromoform	19.50	173	163128	18.35	ug/l	99
69)	Isopropylbenzene	19.41	105	1468402	24.71	ug/l	99
70)	1,1,2,2-Tetrachloroethane	19.83	83	394545	21.91	ug/l	97
72)	1,2,3-Trichloropropane	20.23	61	102552	21.12	ug/l	94
73)	trans-1,4-Dichloro-2-buten	20.38	53	84271	29.09	ug/l	87
74)	n-Propylbenzene	20.50	91	1921906	22.27	ug/l	100
75)	Bromobenzene	20.68	156	397220	22.39	ug/l	98
76)	2-Chlorotoluene	21.03	91	1103987	20.41	ug/l	100
77)	1,3,5-Trimethylbenzene	20.94	105	1301275	22.62	ug/l	99
78)	4-Chlorotoluene	21.15	91	1307099	21.90	ug/l	99
79)	tert-Butylbenzene	21.97	119	1043227	22.51	ug/l	98
80)	1,2,4-Trimethylbenzene	22.09	105	1297419	22.11	ug/l	99
81)	sec-Butylbenzene	22.61	105	1588248	21.43	ug/l	98
82)	p-Isopropyltoluene	22.99	119	1282365	23.83	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : d:\HPCHEM\1\DATA\06C17\RCB303.D Vial: 7
Acq On : 17 Mar 2006 8:35 pm Operator: CGM
Sample : VO03C26C 5.0mL Inst : TO03
Misc : 20ppb 8260/80ppb Ket-AA/100ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Mar 17 21:06 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83)	1,3-Dichlorobenzene	23.28	146	706241	21.91	ug/l	99
84)	1,4-Dichlorobenzene	23.53	146	694610	21.25	ug/l	98
85)	n-Butylbenzene	24.00	91	1407396	22.48	ug/l	100
86)	1,2-Dichlorobenzene	24.38	146	686448	22.06	ug/l	99
87)	1,2-Dibromo-3-chloropropan	25.94	157	54006	18.83	ug/l	98
88)	1,2,4-Trichlorobenzene	27.73	180	557801	22.41	ug/l	99
89)	Hexachlorobutadiene	28.02	225	443493	21.69	ug/l	99
90)	Naphthalene	28.30	128	945365	22.60	ug/l	100
91)	1,2,3-Trichlorobenzene	28.80	180	522873	23.15	ug/l	99

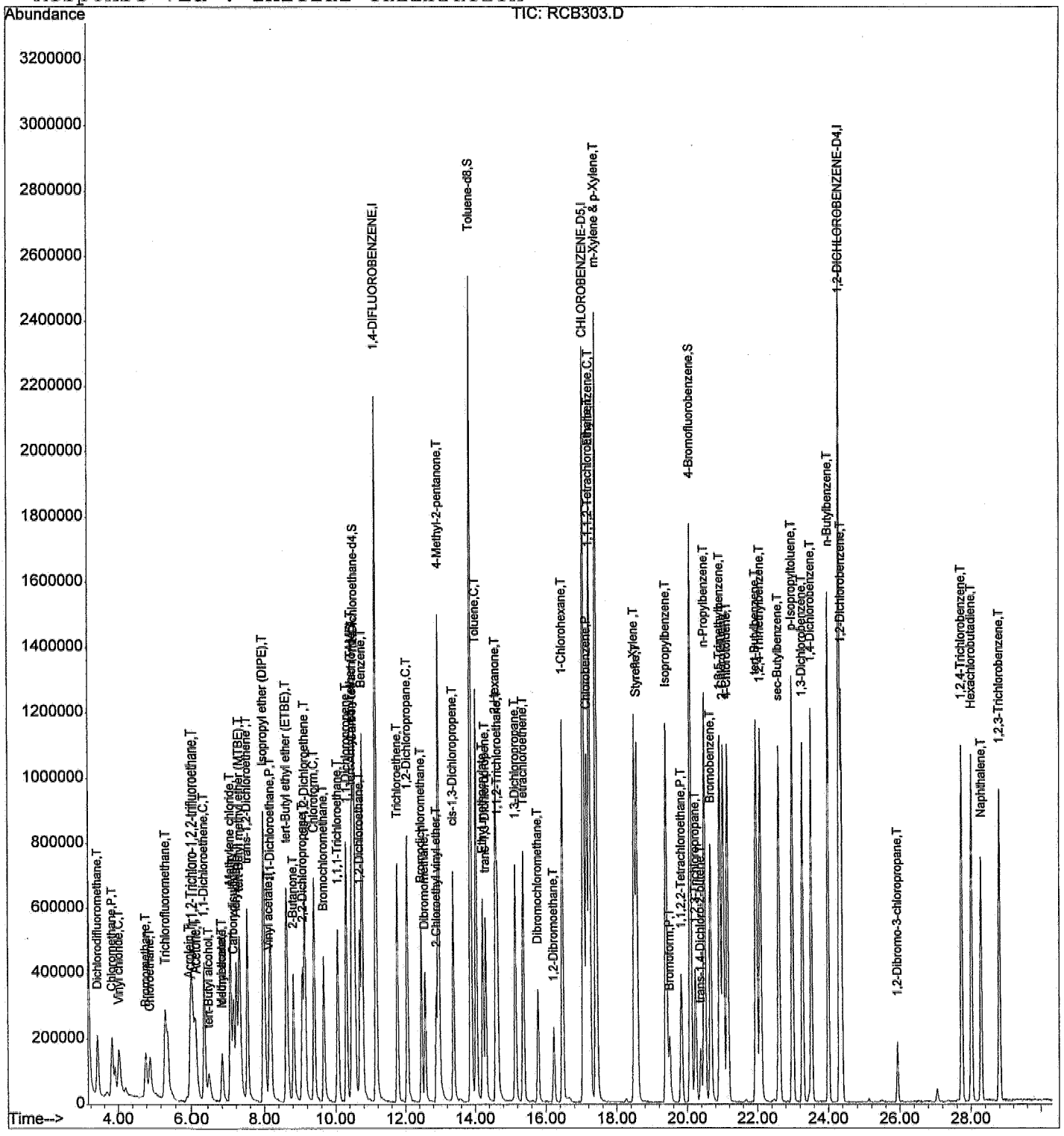
(#) = qualifier out of range (m) = manual integration

2022

Quantitation Report

Data File : d:\HPCHEM\1\DATA\06C17\RCB303.D Vial: 7
Acq On : 17 Mar 2006 8:35 pm Operator: CGM
Sample : VO03C26C 5.0mL Inst : TO03
Misc : 20ppb 8260/80ppb Ket-AA/100ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Mar 17 21:06 2006 Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



2923

INITIAL CALIBRATIONS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RBB053
Instrument ID: T-003
GC Column:RTX502.2ID:0.32mm (mm)

Contract: UPGRADIENT INVESTIGATION, TRONOX
SAS No.: SDG No.: 06C119
BFB Injection Date : 02/03/06
BFB Injection Time : 13:03
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	26.71
75	30.0 - 60.0% of mass 95	53.21
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	7.38
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	71.75
175	5.0 - 9.0% of mass 174	5.93(8.3)1
176	95.0 - 101.0% of mass 174	70.77(98.6)1
177	5.0 - 9.0% of mass 176	4.73(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD02	V003B031	RBB054	02/03/06	13:40
2	VSTD05	V003B032	RBB055	02/03/06	14:17
3	VSTD010	V003B033	RBB056	02/03/06	14:54
4	VSTD020	V003B034	RBB057	02/03/06	15:32
5	VSTD050	V003B035	RBB058	02/03/06	16:09
6	VSTD080	V003B036	RBB059	02/03/06	16:46
7	VSTD100	V003B037	RBB060	02/03/06	17:24
8	VSTD200	V003B038	RBB061	02/03/06	18:01
9	VSTD300	V003B039	RBB062	02/03/06	18:38
10	VSTD050	IV003B031	RBB065	02/03/06	20:30

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :TOO3
Beginning DateTime :02/03/06 13:40
Spike Units :PPB
IC File :RBB058

Column Spec :RTX502.2 ID :0.32MM
Ending DateTime :02/03/06 18:38
HPChem Method :VOO3B03

M	IDX	Parameters	2 13:40 RBB054	5 14:17 RBB055	10 14:54 RBB056	20 15:32 RBB057	50 16:09 RBB058	80 16:46 RBB059	100 17:24 RBB060	200 18:01 RBB061	300 18:38 RBB062	Av_RRF	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	0	11.1513
	2	Dichlorodifluoromethane	0.414	0.459	0.469	0.596	0.460	0.455	0.431	0.489	0.411	0.465	11.93	3.3883
	3	Chloromethane	0.617	0.548	0.574	0.661	0.532	0.539	0.518	0.643	0.601	0.581	8.88	3.8142
	4	Vinyl chloride	0.372	0.384	0.378	0.462	0.315	0.290	0.264	------	------	0.352	19.12	4.0089
	5	Bromomethane	0.247	0.240	0.264	0.329	0.270	0.270	0.264	0.298	0.237	0.269	10.88	4.7603
	6	Chloroethane	0.217	0.211	0.223	0.286	0.220	0.218	0.206	0.233	0.179	0.221	12.91	4.8890
	7	Trichlorofluoromethane	0.505	0.496	0.492	0.641	0.486	0.486	0.463	0.527	0.419	0.502	11.99	5.3200
	8	sec-Propyl alcohol	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
4	9	Acrolein	0.034	0.039	0.045	0.042	0.046	0.045	0.041	0.045	0.040	0.042	9.35	5.9853
	10	1,1,2-Trichloro-1,2,2-trifluoroethane	0.276	0.241	0.246	0.274	0.255	0.230	0.207	0.263	0.209	0.245	10.44	6.0200
4	11	Acetone	0.181	0.153	0.162	0.155	0.155	0.152	0.139	0.154	0.142	0.155	7.85	6.0976
	12	1,1-Dichloroethene	0.844	0.786	0.772	0.829	0.759	0.705	0.650	0.810	0.658	0.757	9.41	6.3056
5	13	tert-Butyl alcohol	0.025	0.022	0.024	0.029	0.031	0.033	0.028	------	------	0.027	14.59	6.4458
	14	Acetonitrile	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	15	Iodomethane	0.274	0.286	0.325	0.379	0.337	0.303	0.275	0.336	------	0.314	11.66	6.8127
	16	Methyl acetate	0.447	0.341	0.354	0.377	0.395	0.404	0.374	0.422	0.378	0.388	8.51	6.7992
	17	Methylene chloride	------	1.116	0.906	0.894	0.781	0.703	0.633	0.770	------	0.829	19.22	7.0498
	18	Carbon disulfide	0.985	1.024	1.067	1.183	1.144	1.060	0.973	1.231	1.014	1.076	8.45	7.1295
4	19	Acrylonitrile	0.115	0.115	0.124	0.129	0.133	0.131	0.121	0.133	0.125	0.125	5.70	7.2170
	20	tert-Butyl methyl ether (MTBE)	0.506	0.547	0.588	0.699	0.772	0.743	0.669	0.889	0.763	0.686	17.81	7.3078
	21	trans-1,2-Dichloroethene	0.740	0.719	0.732	0.805	0.758	0.694	0.642	0.793	0.658	0.727	7.64	7.5240
	22	Isopropyl ether (DIPE)	1.416	1.433	1.513	1.736	1.723	1.647	1.496	1.860	1.540	1.596	9.58	7.9896
	23	1,1-Dichloroethane	0.794	0.789	0.788	0.886	0.831	0.769	0.704	0.871	0.711	0.794	7.88	8.1795
	24	Vinyl acetate	0.650	0.726	0.765	0.928	0.952	0.928	0.821	1.015	0.873	0.851	14.03	8.1366
	25	tert-Butyl ethyl ether (ETBE)	0.705	0.731	0.814	1.026	1.068	1.044	0.921	1.195	1.052	0.951	17.69	8.6303
4	26	2-Butanone	0.186	0.175	0.197	0.213	0.228	0.228	0.208	0.226	0.219	0.209	9.22	8.8201
	27	2,2-Dichloropropane	------	0.290	0.295	0.350	0.399	0.384	0.353	------	------	0.345	13.08	9.0736
	28	cis-1,2-Dichloroethene	0.745	0.740	0.780	0.849	0.813	0.750	0.686	0.864	0.718	0.772	7.77	9.1420
	29	tert-Butyl formate (TBF)	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	30	Chloroform	0.766	0.741	0.757	0.808	0.766	0.702	0.642	0.783	0.653	0.736	7.87	9.3980
	31	Bromochloromethane	0.480	0.455	0.465	0.491	0.464	0.423	0.382	0.480	0.403	0.449	8.40	9.6654
2	32	Tetrahydrofuran	0.131	0.103	0.108	0.113	0.134	0.135	0.125	0.141	0.132	0.125	10.76	9.7480
	33	1,1,1-Trichloroethane	0.472	0.509	0.532	0.595	0.600	0.557	0.510	0.631	0.533	0.549	9.38	10.0617
	34	Cyclohexane	0.657	0.676	0.748	0.782	0.777	0.772	0.755	0.818	0.671	0.740	7.75	10.1211
	35	tert-Amyl methyl ether (TAME)	------	0.565	0.615	0.738	0.802	0.768	0.678	0.852	0.756	0.722	13.34	10.4729
	36	1,2-Dichloroethane-d4	0.541	0.519	0.540	0.512	0.456	0.555	0.523	0.534	0.456	0.515	6.98	10.5421
	37	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	0	17.0669
	38	1,1-Dichloropropene	0.185	0.203	0.197	0.233	0.220	0.198	0.190	0.232	0.184	0.205	9.28	10.3044
	39	Carbon tetrachloride	------	0.369	0.406	0.526	0.509	0.472	0.451	0.555	0.437	0.466	13.45	10.4970
	40	1,2-Dichloroethane	0.757	0.771	0.753	0.848	0.775	0.722	0.691	0.807	0.645	0.752	8.06	10.6907
	41	Benzene	1.443	1.515	1.518	1.718	1.583	1.440	1.376	1.590	1.259	1.494	8.96	10.7650
	42	Trichloroethene	0.369	0.394	0.383	0.434	0.409	0.380	0.364	0.430	0.345	0.390	7.69	11.7705
	43	Methylcyclohexane	0.537	0.588	0.640	0.693	0.678	0.671	0.689	0.722	0.560	0.642	10.18	11.9092
	44	1,2-Dichloropropane	0.442	0.476	0.457	0.521	0.502	0.468	0.449	0.547	0.439	0.478	7.90	12.0495
	45	Bromodichloromethane	0.447	0.463	0.515	0.590	0.624	0.582	0.562	0.681	0.559	0.558	13.35	12.4589
	46	Dibromomethane	0.260	0.282	0.270	0.302	0.295	0.268	0.249	0.295	0.245	0.274	7.59	12.5630
	47	2-Chloroethyl vinyl ether	------	0.144	0.162	0.198	0.200	0.195	0.183	0.224	0.207	0.189	13.56	12.8931
4	48	4-Methyl-2-pentanone	0.426	0.458	0.518	0.556	0.594	0.582	0.550	0.564	0.521	0.530	10.60	12.9641
	49	cis-1,3-Dichloropropene	------	0.412	0.466	0.580	0.640	0.608	0.574	0.723	0.603	0.576	16.93	13.3797
	50	Toluene-d8	0.977	1.089	1.167	1.137	1.046	1.235	1.252	1.263	1.012	1.131	9.43	13.8854
	51	Toluene	1.456	1.470	1.523	1.585	1.549	1.433	1.332	1.539	1.234	1.458	7.74	14.0340
	52	Ethyl methacrylate	------	0.365	0.406	0.485	0.519	0.507	0.459	0.546	0.479	0.471	12.70	14.2248
	53	trans-1,3-Dichloropropene	------	0.269	0.307	0.412	0.494	0.468	0.443	0.573	0.502	0.434	23.51	14.3010
	54	1,1,2-Trichloroethane	0.307	0.299	0.320	0.325	0.337	0.310	0.289	0.343	0.286	0.313	6.46	14.6432
4	55	2-Hexanone	0.285	0.303	0.347	0.356	0.394	0.392	0.368	0.371	0.359	0.353	10.49	14.5937
	56	1,3-Dichloropropane	0.544	0.545	0.576	0.614	0.641	0.598	0.550	0.649	0.557	0.586	7.04	15.1484
	57	Tetrachloroethene	0.341	0.348	0.343	0.348	0.355	0.324	0.302	0.361	0.296	0.335	6.88	15.3680
	58	Dibromochloromethane	------	0.235	0.268	0.333	0.377	0.360	0.335	0.427	0.371	0.338	18.24	15.7720
	59	1,2-Dibromoethane	0.246	0.274	0.294	0.312	0.327	0.296	0.271	0.331	0.293	0.294	9.36	16.2183
	60	1-Chlorohexane	0.410	0.465	0.516	0.571	0.585	0.538	0.510	0.610	0.509	0.524	11.82	16.4709
	61	Chlorobenzene	1.010	1.015	1.003	1.034	1.010	0.916	0.848	0.992	0.823	0.961	8.21	17.1594
	62	1,1,1,2-Tetrachloroethane	0.250	0.267	0.293	0.336	0.355	0.334	0.306	0.372	0.314	0.314	12.71	17.2287
	63	Ethylbenzene	1.732	1.788	1.805	1.898	1.843	1.660	1.529	1.738	1.406	1.711	9.18	17.2436
2	64	m-Xylene & p-Xylene	1.445	1.501	1.510	1.584	1.543	1.365	1.270	1.376	1.063	1.406	11.53	17.4252
	65	o-Xylene	1.311	1.385	1.508	1.616	1.608	1.460	1.341	1.574	1.302	1.456	8.70	18.5049
	66	Styrene	0.857	0.949	1.001	1.102	1.107	1.005	0.934	1.107	0.927	0.999	9.09	18.5792
	67	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	0	24.3165
	68	Bromoform	------	0.248	0.291	0.386	0.479	0.484	0.444	0.587	0.508	0.428	26.59	19.4979
	69	Isopropylbenzene	2.500	2.797	2.744	3.097	3.071	2.866	2.643	3.091	2.427	2.804	8.98	19.4014
	70	1,1,2,2-Tetrachloroethane	0.743	0.815	0.818	0.882	0.909	0.892	0.797	0.955	0.838	0.850	7.66	19.8274
	71	4-Bromofluorobenzene	1.054	1.096	1.106	1.088	1.022	1.241	1.241	1.273	1.043	1.129	8.50	20.0949
	72	1,2,3-Trichloropropane	0.249	0.224	0.222	0.240	0.229	0.230	0.200	0.251	0.217	0.229	7.04	20.2286
	73	trans-1,4-Dichloro-2-butene	------	0.102	0.110	0.117	0.142	0.152	0.140	------	------	0.127	15.80	20.3789
	74	n-Propylbenzene	3.636	4.201	4.161	4.514	4.444	4.096	3.780	4.386	3.439	4.073	9.24	20.4944
	75	Bromobenzene	0.809	0.836	0.845	0.899	0.899	0.837	0.759	0.909	0.742	0.837	7.18	20.6694
	76	2-Chlorotoluene	3.133	2.513	2.470	2.609	2.565	2.374	2.152	2.501	2.657	2.553	10.31	21.0310
	77	1,3,5-Trimethylbenzene	2.394	2.678	2.734	2.986	2.981	2.757	2.522	2.995	2.390	2.715	8.95	21.9319
	78	4-Chlorotoluene	2.761	2.862	2.894	3.052	3.001	2.762	2.560	3.011	2.444	2.816	7.38	21.1548
	79	tert-Butylbenzene	1.946	2.155	2.187	2.421	2.375	2.200	2.044	2.405	1.951	2.187	8.44	21.9688
	80	1,2,4-Trimethylbenzene	2.584	2.822	2.813	3.033	2.969	2.772	2.537	2.980	2.418	2.770	7.76	22.0877
	81	sec-Butylbenzene	3.107	3.489	3.518	3.897	3.777	3.541	3.270	3.848	3.038	3.498	8.91	22.6077
	82	p-Isopropyltoluene	2.177	2.516	2.507	2.855	2.796	2.566	2.397	2.794	2.249	2.540	9.52	22.9941
	83	1,3-Dichlorobenzene	1.589	1.586	1.523	1.650	1.610	1.476	1.363	1.584	1.307	1.521	7.73	23.2731
	84	1,4-Dichlorobenzene	1.595	1.616	1.559	1.680	1.646	1.482	1.378	1.624	1.302	1.542	8.37	23.5290
	85	n-Butylbenzene	2.665	2.972	3.000	3.340	3.216	2.934	2.737	3.172	2.557	2.955	8.93	23.9929
	86	1,2-Dichlorobenzene	1.618	1.570	1.470	1.578	1.535	1.403	1.281	1.506	1.256	1.469	8.85	24.3760
	87	1,2-Dibromo-3-chloropropane	------	0.090	0.096	0.124	0.151	0.152	0.137	0.182	0.163	0.137	23.38	25.9357
	88	1,2,4-Trichlorobenzene	1.142	1.174	1.155	1.246	1.223	1.152	1.092	1.302	1.087	1.175	6.02	27.7341
	89	Hexachlorobutadiene	0.991	0.978	0.938	1.041	0.984	0.933	0.875	1.054	0.892	0.965	6.38	28.0164
	90	Naphthalene	1.642	1.737	1.899	2.108	2.174	2.081	1.899	2.265	1.961	1.974	10.32	28.2839
	91	1,2,3-Trichlorobenzene	1.040	1.028	1.039	1.140	1.118	1.062	0.982	1.171	1.011	1.066	5.96	28.8023

Spike Amount = Nominal Amount * M
Ave_%RSD : 10.6 Max_%RSD : 26.6

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Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
Resp_Ratio = xo + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
4	Vinyl chloride	0.00963	0.29076	0.9833*
17	Methylene chloride	0.04162	0.71073	0.9951
20	tert-Butyl methyl ether (MTBE)	-0.02037	0.78823	0.9954
25	tert-Butyl ethyl ether (ETBE)	-0.02603	1.08082	0.9964
49	cis-1,3-Dichloropropene	-0.02733	0.64405	0.9955
53	trans-1,3-Dichloropropene	-0.03477	0.52061	0.9960
58	Dibromochloromethane	-0.01952	0.38720	0.9963
68	Bromoform	-0.04027	0.52930	0.9954
73	trans-1,4-Dichloro-2-butene	-0.00614	0.14726	0.9981
87	1,2-Dibromo-3-chloropropane	-0.01181	0.16672	0.9957

Use Quadratic Regression of inv conc w.f. for comps of linear reg of inv conc w.f. with CCF < .995
Resp_Ratio = xo + x1 * Amt_Ratio + x2 * Amt_Ratio * Amt_Ratio

IDX	Parameter	x0	x1	x2	CCF2
4	Vinyl chloride	-0.00241	0.43478	-0.08811	0.9959

AE 2-9-06

Compound List Report TO03

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration
Total Cpnds : 91

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-DIFLUOROBENZENE	114	11.16	1.000	A	1	A	B
2	T	Dichlorodifluoromethane	85	3.40	0.305	A	2	A	B
3	T	Chloromethane	50	3.81	0.342	A	1	A	B
4	T	Vinyl chloride	62	4.01	0.359	Q✓	1	A	B
5	T	Bromomethane	94	4.77	0.427	A	1	A	B
6	T	Chloroethane	64	4.90	0.439	A	2	A	B
7	T	Trichlorofluoromethane	101	5.33	0.478	A	1	A	B
8	T	sec-Propyl alcohol	45	5.06	0.454	A	1	A	B
9	T	Acrolein	56	5.98	0.536	A	1	A	B
10	T	1,1,2-Trichloro-1,2,2-trifluor	151	6.03	0.540	A	1	A	B
11	T	Acetone	43	6.09	0.546	A	1	A	B
12	T	1,1-Dichloroethene	61	6.31	0.566	A	2	A	B
13	T	tert-Butyl alcohol	59	6.44	0.578	A	1	A	B
14	T	Acetonitrile	39	7.29	0.654	A	2	A	B
15	T	Iodomethane	142	6.82	0.611	A	2	A	B
16	T	Methyl acetate	43	6.80	0.610	A	1	A	B
17	T	Methylene chloride	49	7.05	0.632	L✓	2	A	B
18	T	Carbon disulfide	76	7.13	0.639	A	1	A	B
19	T	Acrylonitrile	53	7.22	0.647	A	2	A	B
20	T	tert-Butyl methyl ether (MTBE)	73	7.31	0.655	L✓	1	A	B
21	T	trans-1,2-Dichloroethene	61	7.53	0.675	A	2	A	B
22	T	Isopropyl ether (DIPE)	45	7.99	0.716	A	1	A	B
23	T	1,1-Dichloroethane	63	8.18	0.734	A	2	A	B
24	T	Vinyl acetate	43	8.14	0.730	A	1	A	B
25	T	tert-Butyl ethyl ether (ETBE)	59	8.63	0.774	L✓	1	A	B
26	T	2-Butanone	43	8.81	0.790	A	1	A	B
27	T	2,2-Dichloropropane	77	9.07	0.813	A	3	A	B
28	T	cis-1,2-Dichloroethene	61	9.15	0.820	A	2	A	B
29	T	tert-Butyl formate (TBF)	59	9.15	0.820	A	2	A	B
30	T	Chloroform	83	9.40	0.843	A	2	A	B
31	T	Bromochloromethane	49	9.67	0.867	A	2	A	B
32	T	Tetrahydrofuran	42	9.74	0.873	A	1	A	B
33	T	1,1,1-Trichloroethane	97	10.06	0.901	A	2	A	B
34	T	Cyclohexane	56	10.12	0.907	A	2	A	B
35	T	tert-Amyl methyl ether (TAME)	73	10.47	0.939	A	2	A	B
36	S	1,2-Dichloroethane-d4	65	10.55	0.945	A	1	A	B
37	I	CHLOROBENZENE-D5	117	17.07	1.000	A	2	A	B
38	T	1,1-Dichloropropene	77	10.31	0.604	A	2	A	B
39	T	Carbon tetrachloride	119	10.50	0.615	A	1	A	B
40	T	1,2-Dichloroethane	62	10.69	0.627	A	2	A	B
41	T	Benzene	78	10.77	0.631	A	2	A	B
42	T	Trichloroethene	130	11.76	0.689	A	3	A	B
43	T	Methylcyclohexane	83	11.91	0.698	A	2	A	B
44	T	1,2-Dichloropropane	63	12.05	0.706	A	2	A	B
45	T	Bromodichloromethane	83	12.46	0.730	A	2	A	B
46	T	Dibromomethane	93	12.57	0.736	A	2	A	B
47	T	2-Chloroethyl vinyl ether	63	12.89	0.755	A	2	A	B
48	T	4-Methyl-2-pentanone	43	12.95	0.759	A	3	A	B
49	T	cis-1,3-Dichloropropene	75	13.38	0.784	L✓	3	A	B
50	S	Toluene-d8	98	13.89	0.814	A	1	A	B
51	T	Toluene	91	14.04	0.822	A	1	A	B
52	T	Ethyl methacrylate	69	14.22	0.833	A	2	A	B
53	T	trans-1,3-Dichloropropene	75	14.31	0.838	L✓	3	A	B
54	T	1,1,2-Trichloroethane	97	14.65	0.858	A	3	A	B
55	T	2-Hexanone	43	14.59	0.855	A	2	A	B
56	T	1,3-Dichloropropane	76	15.15	0.888	A	2	A	B
57	T	Tetrachloroethene	164	15.38	0.901	A	3	A	B
58	T	Dibromochloromethane	129	15.78	0.924	L✓	2	A	B
59	T	1,2-Dibromoethane	107	16.22	0.950	A	1	A	B
60	T	1-Chlorohexane	91	16.47	0.965	A	3	A	B
61	P	Chlorobenzene	112	17.16	1.005	A	3	A	B

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62	T	1,1,1,2-Tetrachloroethane	131	17.23	1.010	A	3	A	B
63	T	Ethylbenzene	91	17.25	1.010	A	1	A	B
64	T	m-Xylene & p-Xylene	91	17.43	1.021	A	1	A	B
65	T	o-Xylene	91	18.51	1.084	A	1	A	B
66	T	Styrene	104	18.58	1.089	A	2	A	B
67	I	1,2-DICHLOROBENZENE-D4	152	24.32	1.000	A	1	A	B
68	T	Bromoform	173	19.49	0.801	L ✓	2	A	B
69	T	Isopropylbenzene	105	19.40	0.798	A	3	A	B
70	T	1,1,2,2-Tetrachloroethane	83	19.83	0.815	A	2	A	B
71	S	4-Bromofluorobenzene	95	20.10	0.826	A	2	A	B
72	T	1,2,3-Trichloropropane	61	20.23	0.832	A	2	A	B
73	T	trans-1,4-Dichloro-2-butene	53	20.38	0.838	L ✓	1	A	B
74	T	n-Propylbenzene	91	20.49	0.842	A	2	A	B
75	T	Bromobenzene	156	20.66	0.850	A	2	A	B
76	T	2-Chlorotoluene	91	21.04	0.865	A	1	A	B
77	T	1,3,5-Trimethylbenzene	105	20.93	0.861	A	2	A	B
78	T	4-Chlorotoluene	91	21.16	0.870	A	1	A	B
79	T	tert-Butylbenzene	119	21.97	0.903	A	2	A	B
80	T	1,2,4-Trimethylbenzene	105	22.09	0.908	A	1	A	B
81	T	sec-Butylbenzene	105	22.61	0.930	A	1	A	B
82	T	p-Isopropyltoluene	119	23.00	0.946	A	2	A	B
83	T	1,3-Dichlorobenzene	146	23.28	0.957	A	2	A	B
84	T	1,4-Dichlorobenzene	146	23.53	0.968	A	2	A	B
85	T	n-Butylbenzene	91	23.99	0.987	A	2	A	B
86	T	1,2-Dichlorobenzene	146	24.38	1.002	A	2	A	B
87	T	1,2-Dibromo-3-chloropropane	157	25.94	1.067	L ✓	2	A	B
88	T	1,2,4-Trichlorobenzene	180	27.74	1.141	A	2	A	B
89	T	Hexachlorobutadiene	225	28.02	1.152	A	2	A	B
90	T	Naphthalene	128	28.29	1.163	A	1	A	B
91	T	1,2,3-Trichlorobenzene	180	28.81	1.185	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

VO03B03.M Mon Feb 06 13:21:35 2006

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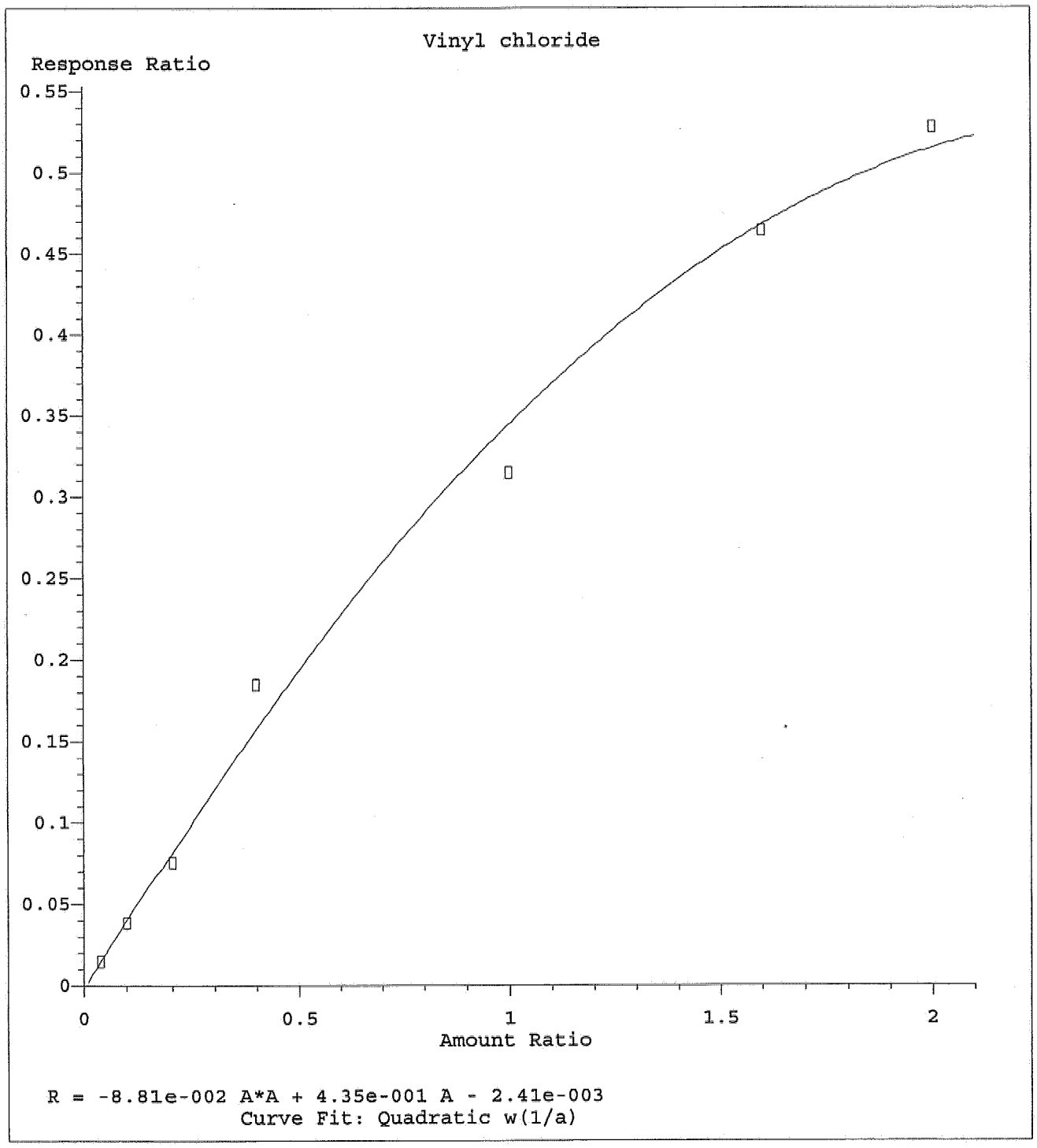
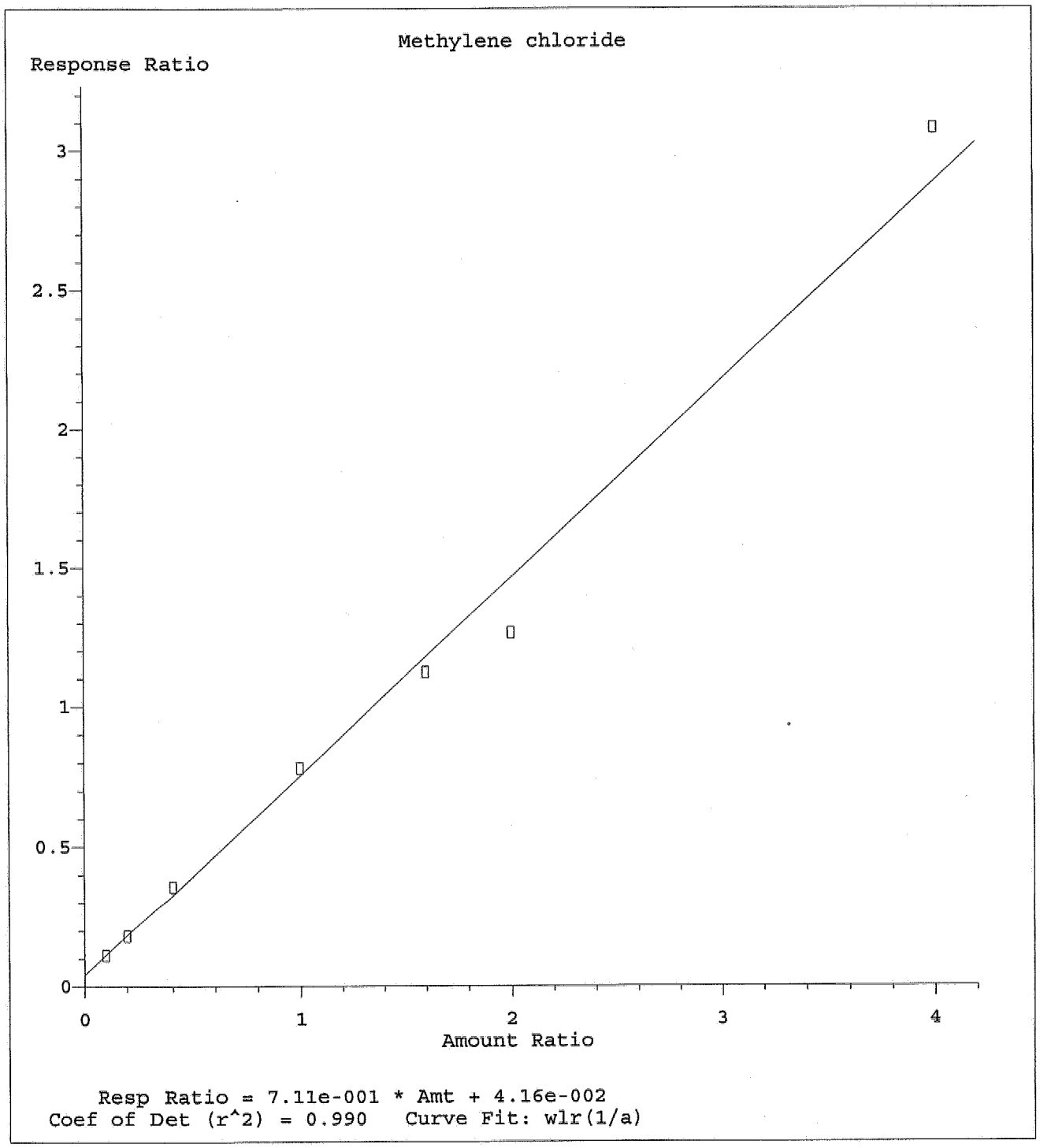


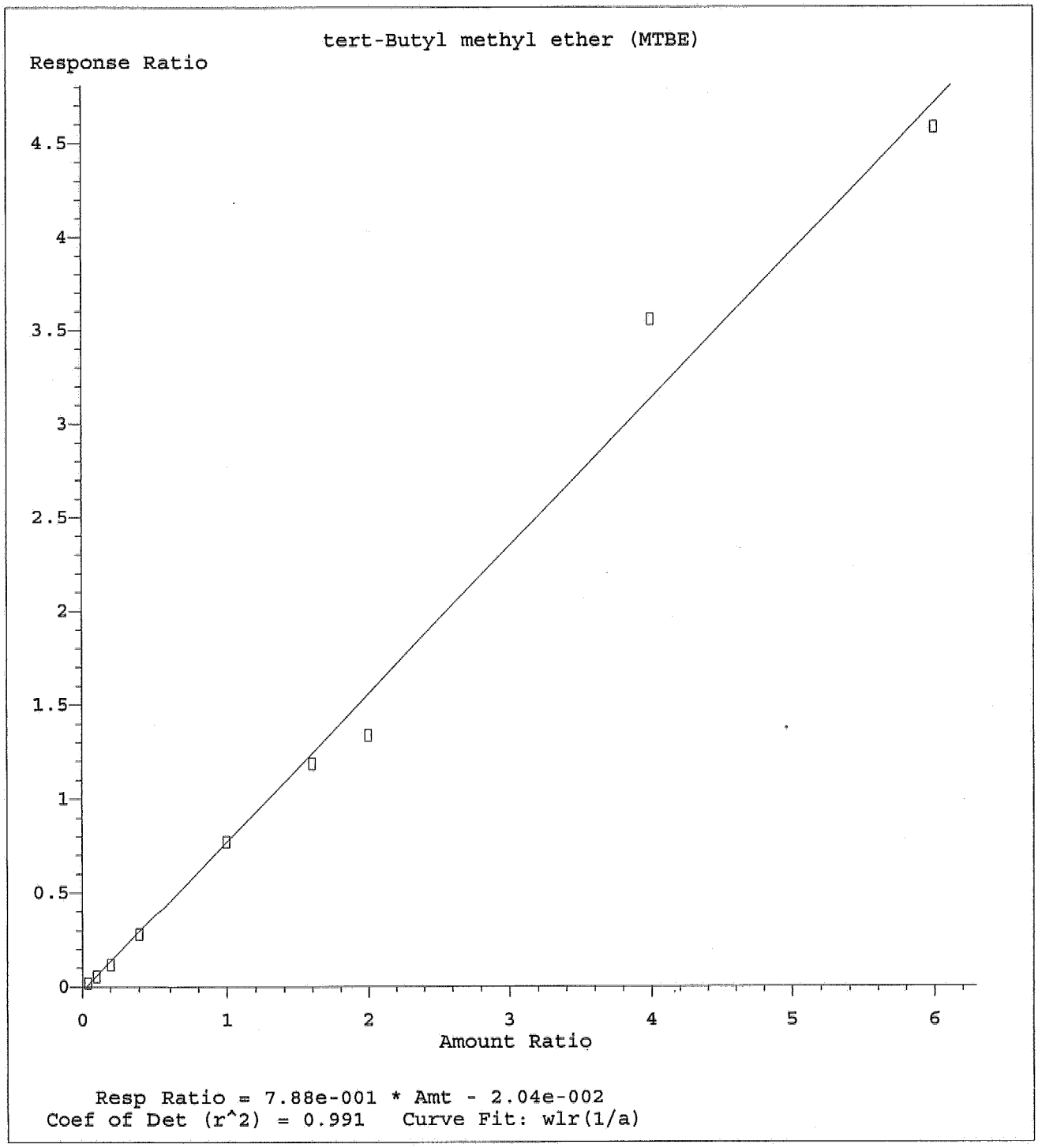
Method Name: D:\HPCHEM\1\METHODS\VO03B03.M
Calibration Table Last Updated: Mon Feb 06 13:18:50 2006

2-9-06



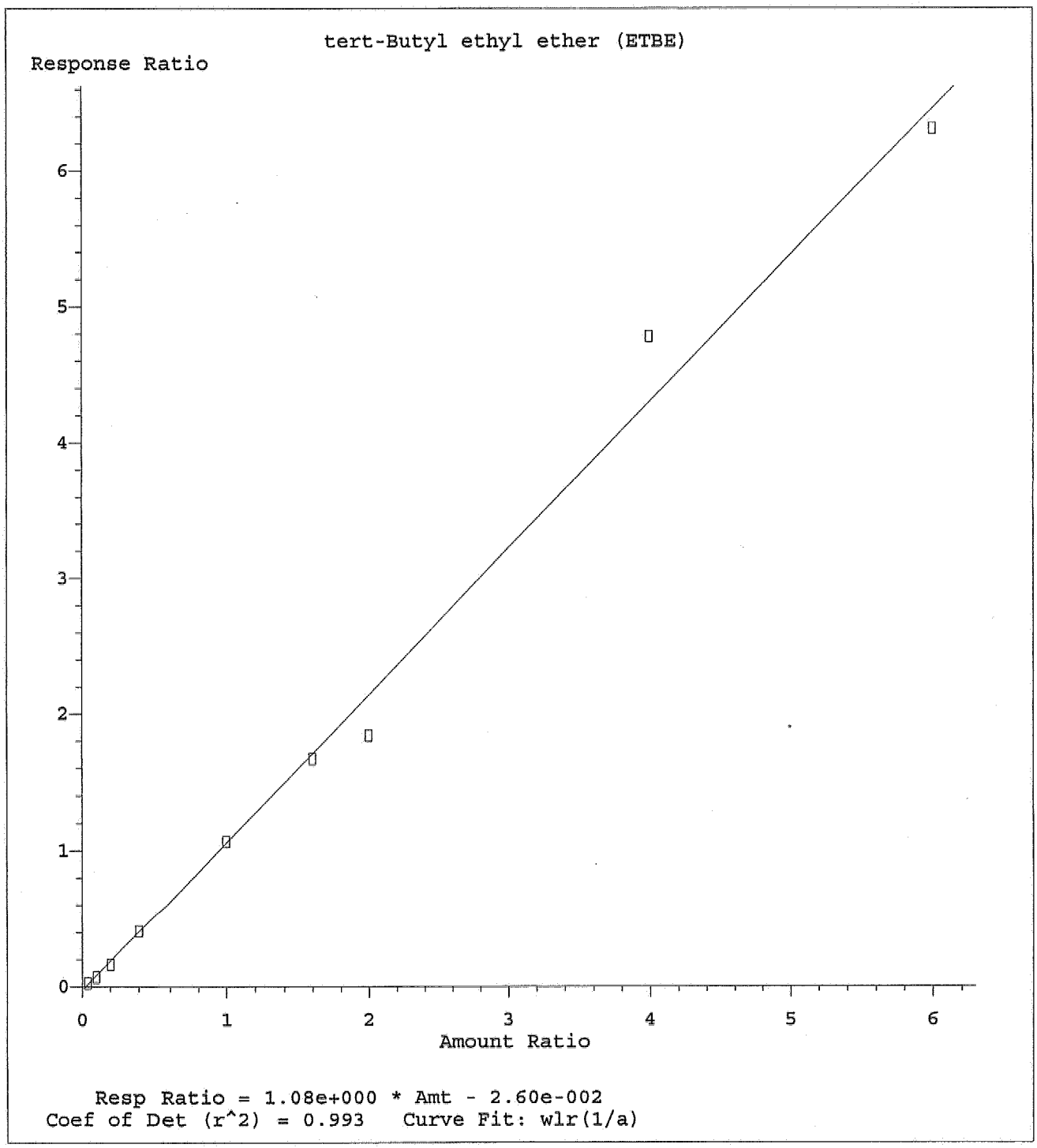
Method Name: D:\HPCHEM\1\METHODS\VO03B03.M
Calibration Table Last Updated: Mon Feb 06 13:18:50 2006

2-9-06



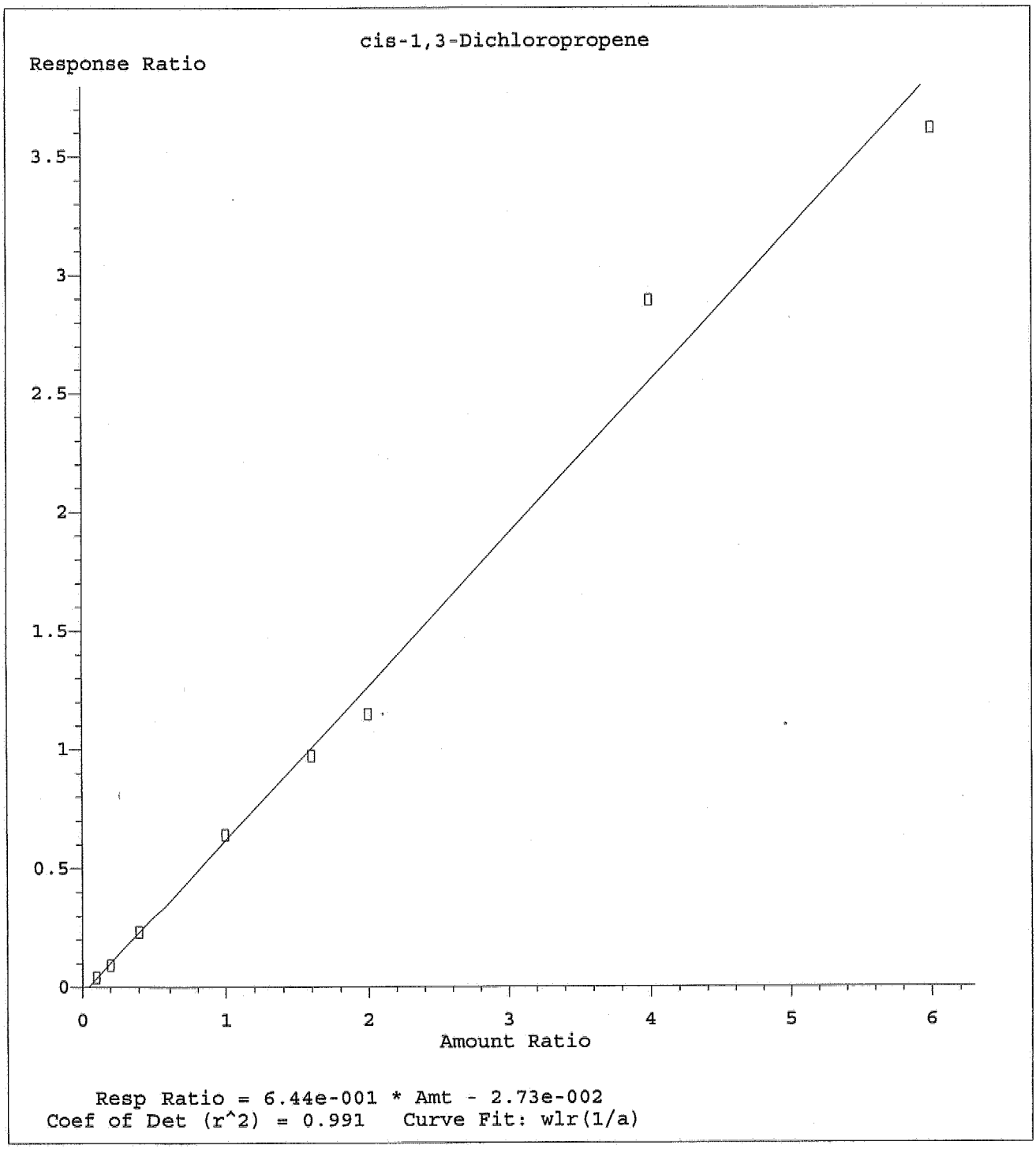
Method Name: D:\HPCHEM\1\METHODS\VO03B03.M
Calibration Table Last Updated: Mon Feb 06 13:18:50 2006

2-9-06



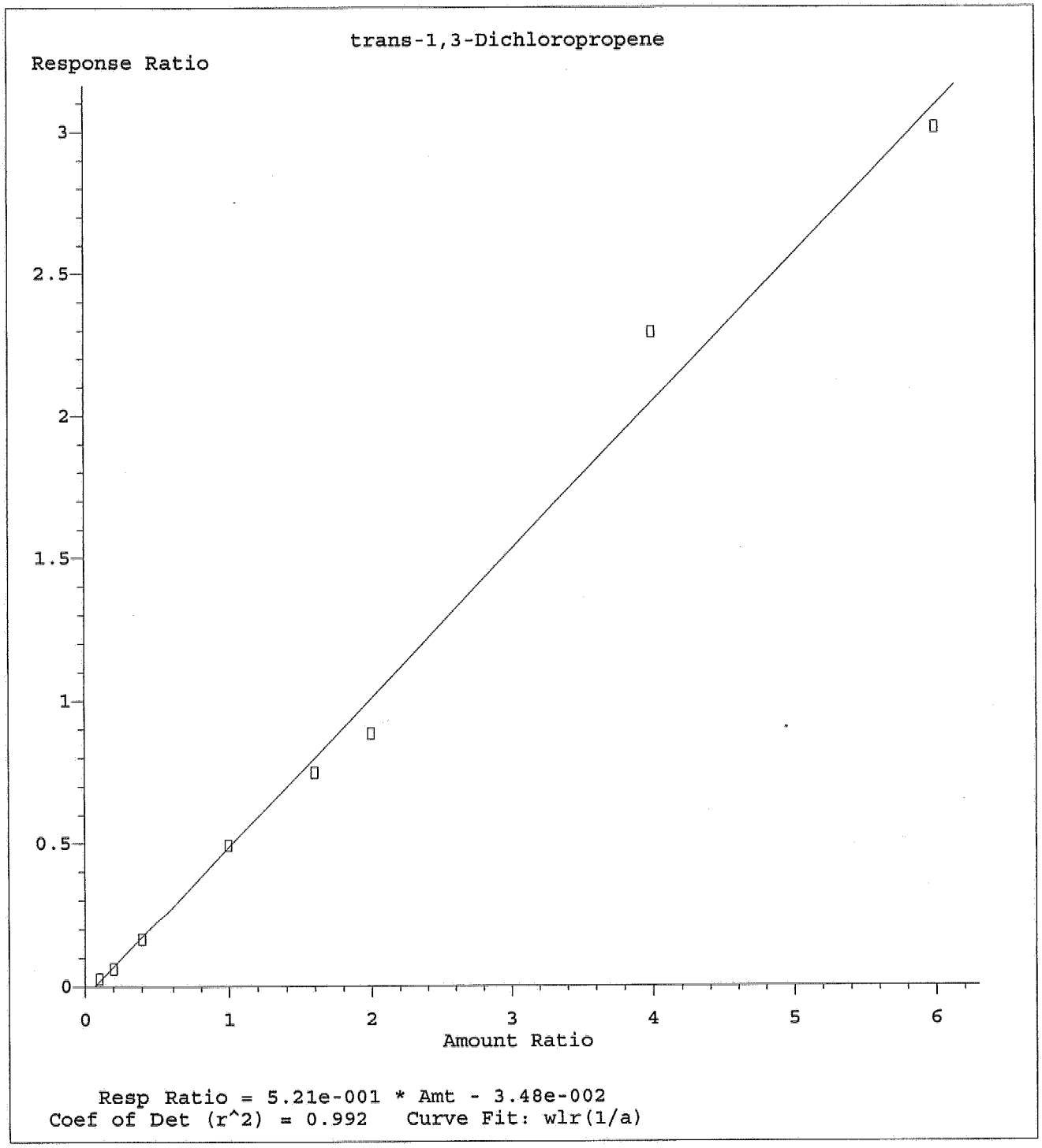
Method Name: D:\HPCHEM\1\METHODS\VO03B03.M
Calibration Table Last Updated: Mon Feb 06 13:18:50 2006

2-9-06



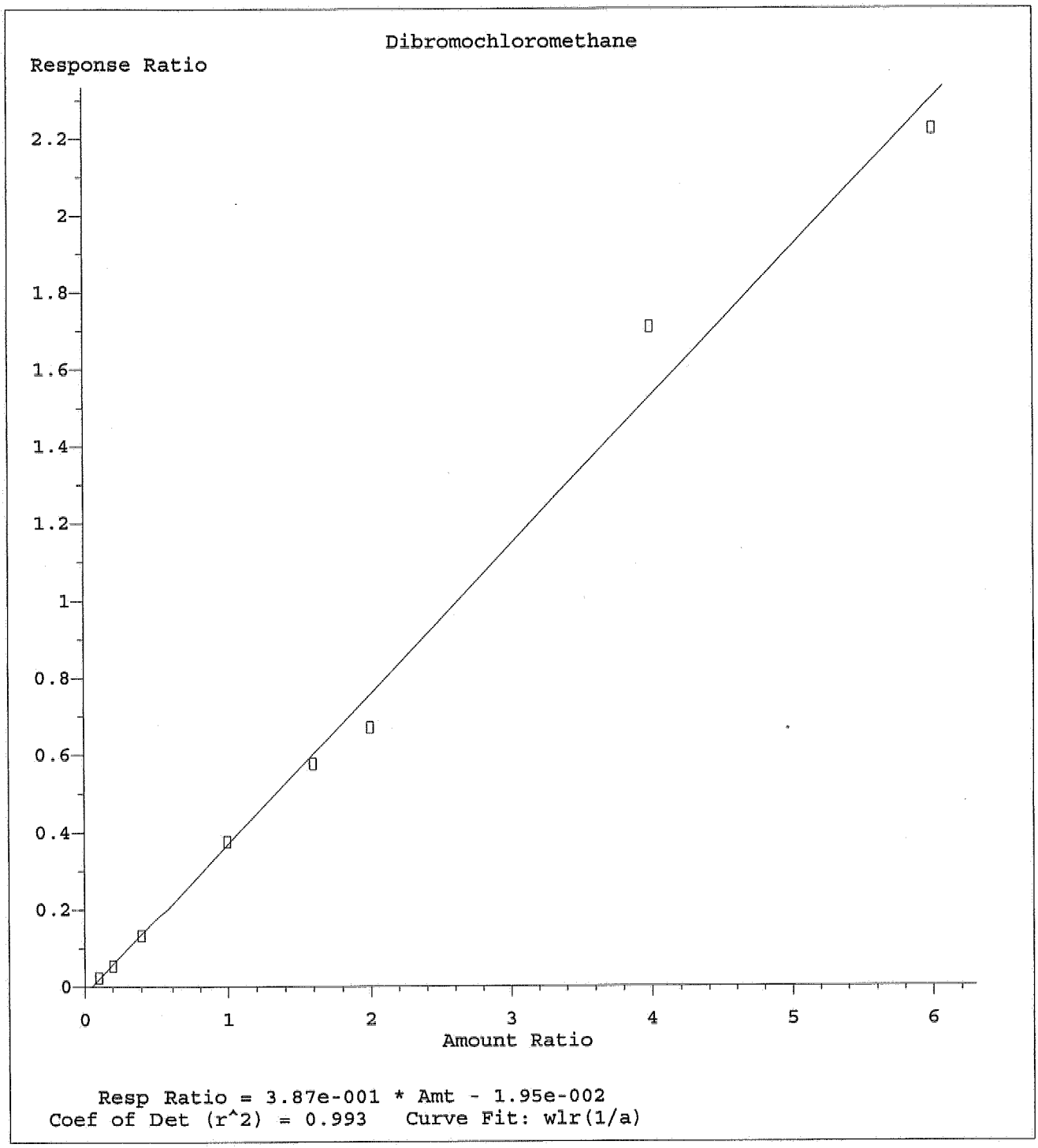
Method Name: D:\HPCHEM\1\METHODS\VO03B03.M
Calibration Table Last Updated: Mon Feb 06 13:18:50 2006

2-9-06



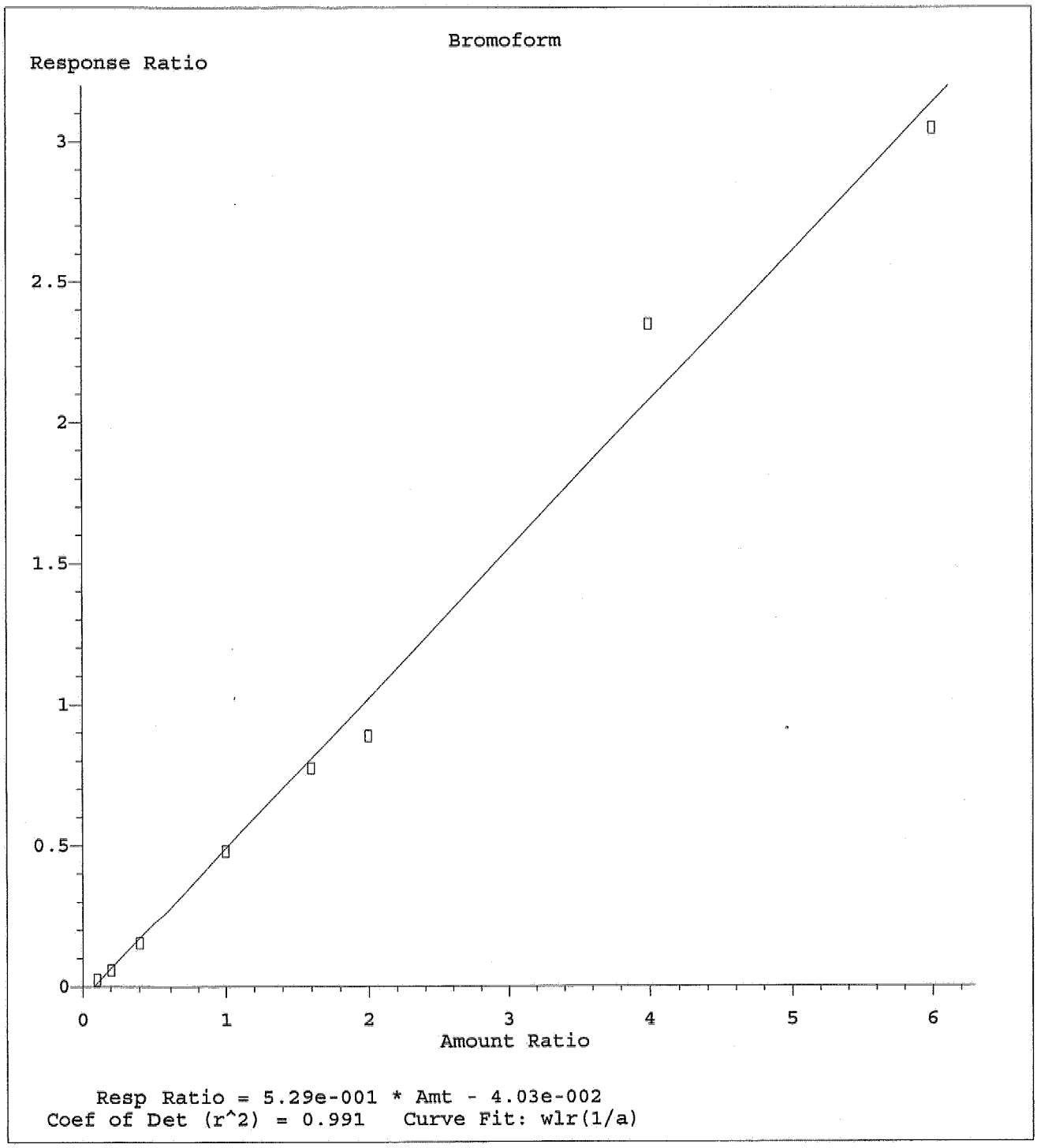
Method Name: D:\HPCHEM\1\METHODS\VO03B03.M
Calibration Table Last Updated: Mon Feb 06 13:18:50 2006

RR 2-9-06



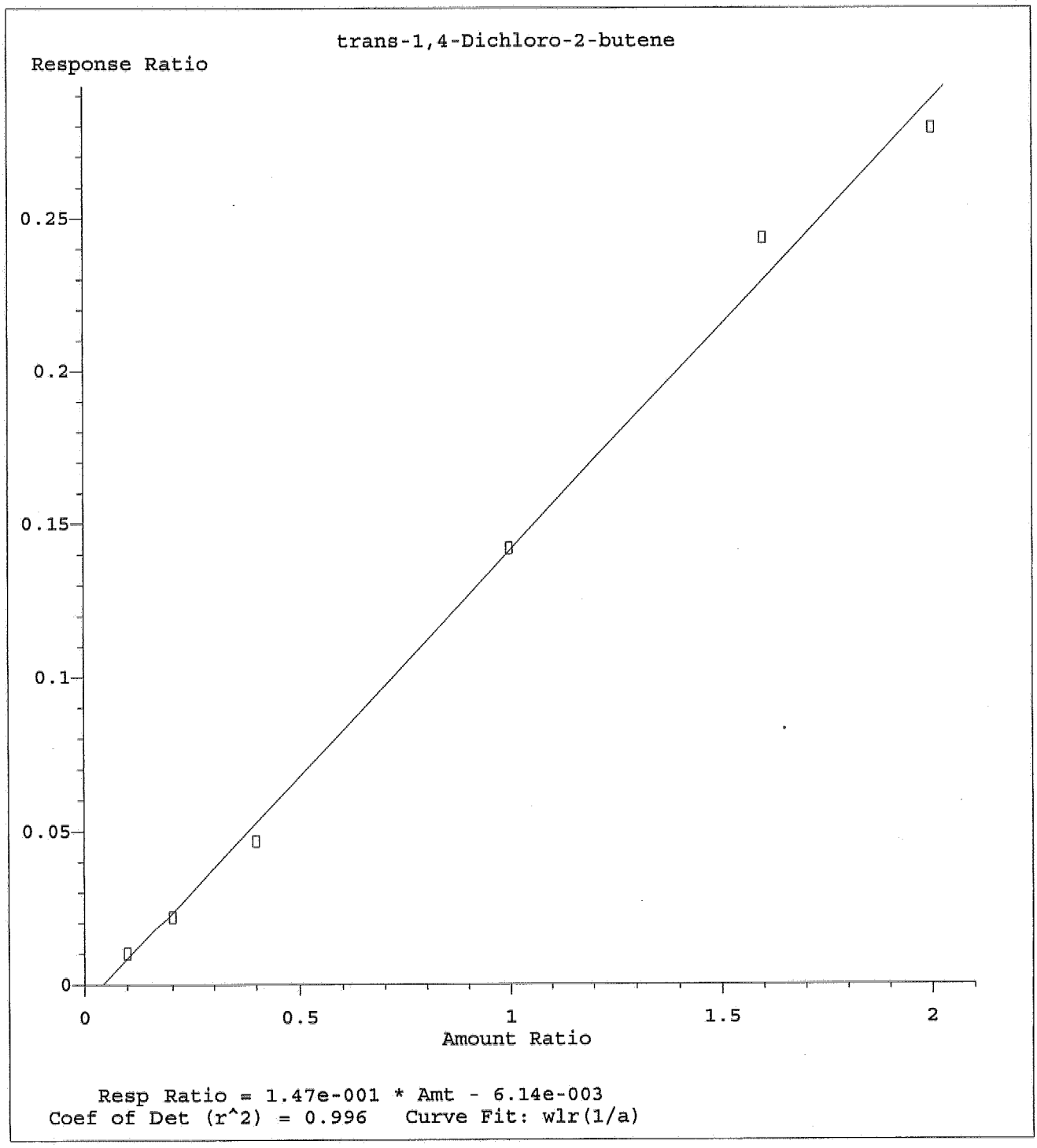
Method Name: D:\HPCHEM\1\METHODS\VO03B03.M
Calibration Table Last Updated: Mon Feb 06 13:18:50 2006

RA 2-9-06



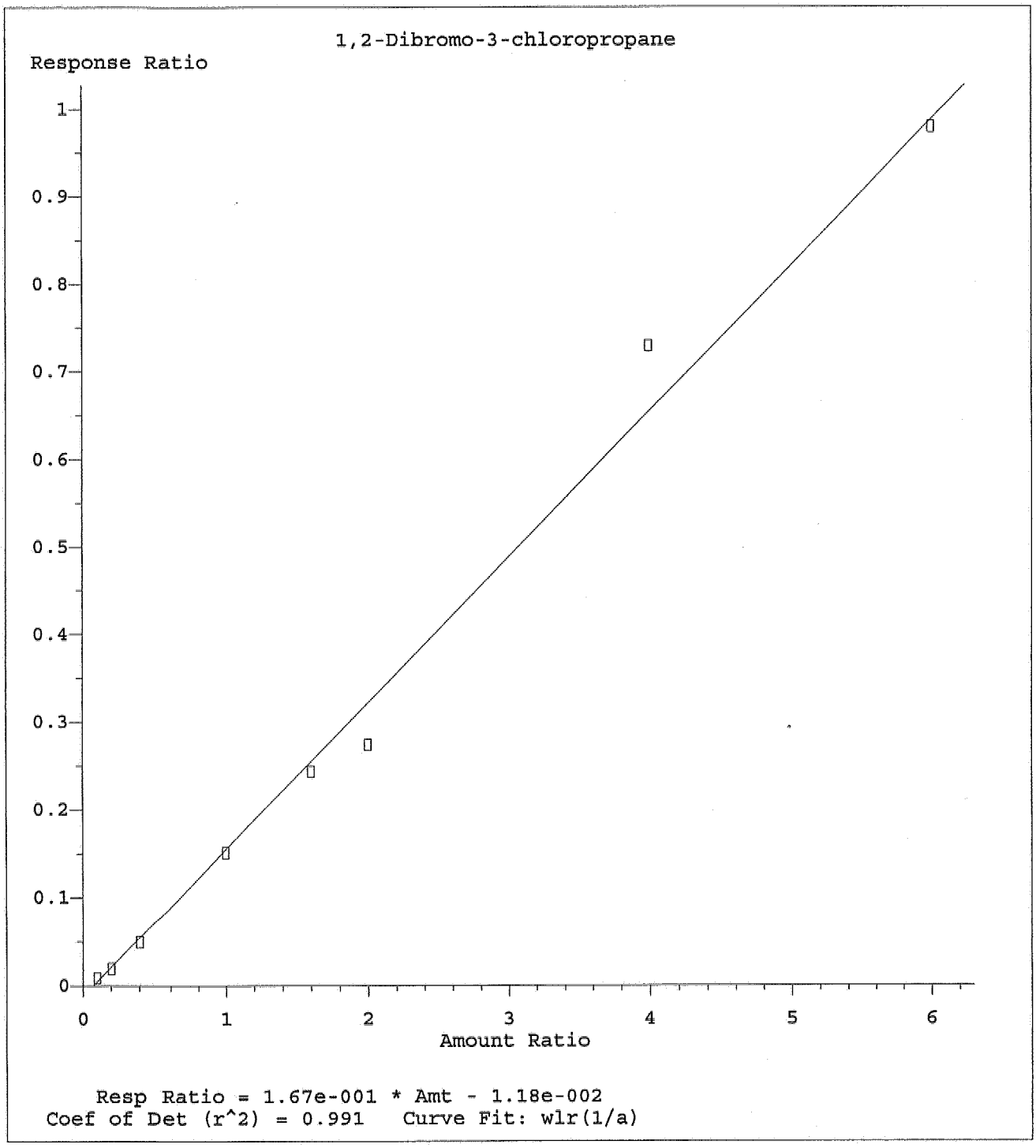
Method Name: D:\HPCHEM\1\METHODS\VO03B03.M
Calibration Table Last Updated: Mon Feb 06 13:18:50 2006

2-9-06



Method Name: D:\HPCHEM\1\METHODS\VO03B03.M
Calibration Table Last Updated: Mon Feb 06 13:18:50 2006

2-9-06



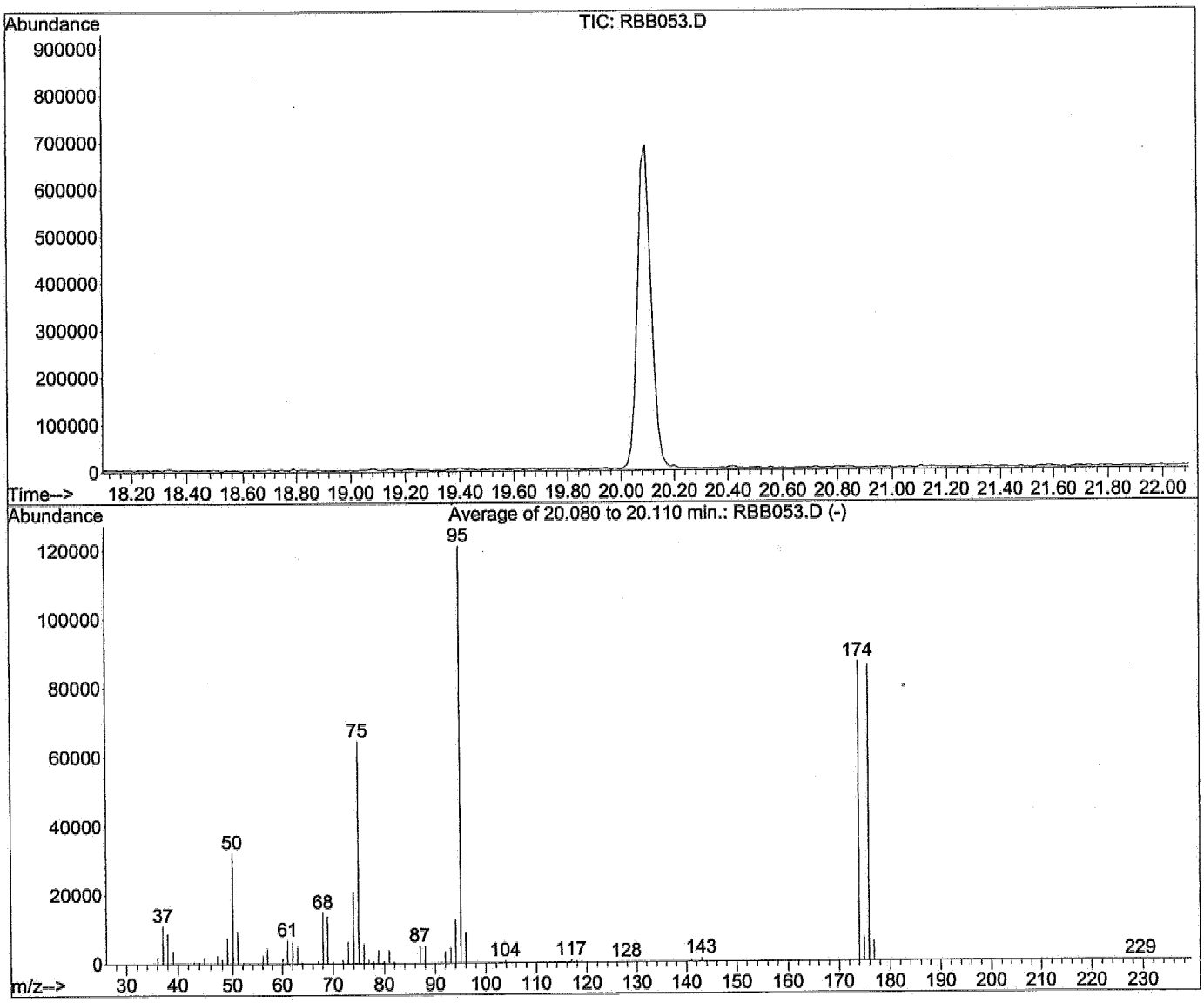
Method Name: D:\HPCHEM\1\METHODS\VO03B03.M
Calibration Table Last Updated: Mon Feb 06 13:18:50 2006

pw 2-9-06

BFB

Data File : D:\HPCHEM\1\DATA\06B03\RBB053.D
Acq On : 3 Feb 2006 1:03 pm
Sample : BFB03B05
Misc : T/CHECK
MS Integration Params: 524INT.P
Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260

Vial: 1
Operator: CGM
Inst : TO03
Multiplr: 1.00



AutoFind: Scans 1142, 1143, 1144; Background Corrected with Scan 1135

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.7	32400	PASS
75	95	30	60	53.2	64544	PASS
95	95	100	100	100.0	121299	PASS
96	95	5	9	7.4	8956	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	71.7	87029	PASS
175	174	5	9	8.3	7199	PASS
176	174	95	101	98.6	85840	PASS
177	176	5	9	6.7	5738	PASS

2-9-06

RBB053.D VO03B03.M Mon Feb 06 19:20:37 2006

2040

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06B03\RBB054.D Vial: 2
Acq On : 3 Feb 2006 1:40 pm Operator: CGM
Sample : VO03B031 2/8/10 Inst : TO03
Misc : 2ppb 8260/8ppb Ket-AA/10ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:38 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 08:36:50 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.16	114	2510783	50.00	ug/l		0.00
37) CHLOROBENZENE-D5	17.07	117	2466285	50.00	ug/l		0.00
67) 1,2-DICHLOROBENZENE-D4	24.32	152	1230324	50.00	ug/l		0.00
System Monitoring Compounds							
36) 1,2-Dichloroethane-d4	10.55	65	54297	2.37	ug/l		0.00
Spiked Amount 50.000			Recovery = 4.74%				
50) Toluene-d8	13.89	98	96431	1.87	ug/l		0.00
Spiked Amount 50.000			Recovery = 3.74%				
71) 4-Bromofluorobenzene	20.10	95	51851	2.06	ug/l		0.00
Spiked Amount 50.000			Recovery = 4.12%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.38	85	41530	1.80	ug/l		91
3) Chloromethane	3.83	50	61997	2.32	ug/l		97
4) Vinyl chloride	4.01	62	37388	2.37	ug/l		93
5) Bromomethane	4.77	94	24763	1.83	ug/l		98
6) Chloroethane	4.90	64	21820	1.98	ug/l		98
7) Trichlorofluoromethane	5.33	101	50741	2.09	ug/l		97
9) Acrolein	5.98	56	13546	5.93	ug/l		86
10) 1,1,2-Trichloro-1,2,2-trif	6.03	151	27715	2.18	ug/l		88
11) Acetone	6.10	43	72761	9.35	ug/l		98
12) 1,1-Dichloroethene	6.31	61	84782	2.22	ug/l		97
13) tert-Butyl alcohol	6.47	59	12627	8.10	ug/l	#	1
15) Iodomethane	6.82	142	27486	1.63	ug/l		94
16) Methyl acetate	6.80	43	44903	2.27	ug/l		89
17) Methylene chloride	7.05	49	185404	4.73	ug/l		98
18) Carbon disulfide	7.13	76	98885	1.72	ug/l		96
19) Acrylonitrile	7.22	53	46266	6.94	ug/l		93
20) tert-Butyl methyl ether (M	7.32	73	50829	1.32	ug/l		96
21) trans-1,2-Dichloroethene	7.53	61	74296	1.95	ug/l		98
22) Isopropyl ether (DIPE)	8.01	45	142177	1.65	ug/l		99
23) 1,1-Dichloroethane	8.18	63	79788	1.91	ug/l		97
24) Vinyl acetate	8.15	43	65241	1.37	ug/l		95
25) tert-Butyl ethyl ether (ET	8.64	59	70803	1.32	ug/l		96
26) 2-Butanone	8.84	43	74708	6.51	ug/l		95
27) 2,2-Dichloropropane	9.07	77	26979	1.35	ug/l		87
28) cis-1,2-Dichloroethene	9.15	61	74810	1.83	ug/l		98
30) Chloroform	9.40	83	76945	2.01	ug/l		98
31) Bromochloromethane	9.67	49	48182	2.08	ug/l		96
32) Tetrahydrofuran	9.77	42	26227	3.94	ug/l		77
33) 1,1,1-Trichloroethane	10.07	97	47404	1.57	ug/l		93
34) Cyclohexane	10.13	56	65987	1.69	ug/l		95
35) tert-Amyl methyl ether (TA	10.49	73	50766	1.26	ug/l		78
38) 1,1-Dichloropropene	10.31	77	18284	1.69	ug/l		98
39) Carbon tetrachloride	10.50	119	31323	1.25	ug/l		97
40) 1,2-Dichloroethane	10.69	62	74680	1.95	ug/l		97
41) Benzene	10.77	78	142375	1.83	ug/l		98
42) Trichloroethene	11.76	130	36376	1.81	ug/l		95
43) Methylcyclohexane	11.91	83	52954	1.58	ug/l		96
44) 1,2-Dichloropropane	12.05	63	43628	1.77	ug/l		90

(#) = qualifier out of range (m) = manual integration

RBB054.D VO03B03.M Mon Feb 06 19:20:49 2006

2-9-06

2041

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06B03\RBB054.D Vial: 2
Acq On : 3 Feb 2006 1:40 pm Operator: CGM
Sample : VO03B031 2/8/10 Inst : TO03
Misc : 2ppb 8260/8ppb Ket-AA/10ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:38 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 08:36:50 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
45)	Bromodichloromethane	12.46	83	44088	1.43 ug/l		93
46)	Dibromomethane	12.57	93	25628	1.76 ug/l		95
47)	2-Chloroethyl vinyl ether	12.91	63	11925	1.21 ug/l		89
48)	4-Methyl-2-pentanone	12.98	43	168116	5.74 ug/l		99
49)	cis-1,3-Dichloropropene	13.38	75	35343	1.12 ug/l		89
51)	Toluene	14.04	91	143682	1.88 ug/l		95
52)	Ethyl methacrylate	14.23	69	32855	1.29 ug/l		85
53)	trans-1,3-Dichloropropene	14.31	75	22811	0.94 ug/l		98
54)	1,1,2-Trichloroethane	14.65	97	30242	1.82 ug/l		91
55)	2-Hexanone	14.62	43	112289	5.80 ug/l		92
56)	1,3-Dichloropropane	15.15	76	53687	1.70 ug/l		96
57)	Tetrachloroethene	15.36	164	33684	1.93 ug/l		95
58)	Dibromochloromethane	15.79	129	20499	1.10 ug/l		94
59)	1,2-Dibromoethane	16.22	107	24227	1.50 ug/l		94
60)	1-Chlorohexane	16.47	91	40399	1.40 ug/l		89
61)	Chlorobenzene	17.16	112	99605	2.00 ug/l		96
62)	1,1,1,2-Tetrachloroethane	17.23	131	24678	1.41 ug/l	#	69
63)	Ethylbenzene	17.25	91	170862	1.88 ug/l		100
64)	m-Xylene & p-Xylene	17.43	91	285035	3.75 ug/l		100
65)	o-Xylene	18.50	91	129300	1.63 ug/l		100
66)	Styrene	18.57	104	84523	1.55 ug/l		97
68)	Bromoform	19.51	173	10496	0.89 ug/l		93
69)	Isopropylbenzene	19.40	105	123054	1.63 ug/l		97
70)	1,1,2,2-Tetrachloroethane	19.83	83	36570	1.63 ug/l		94
72)	1,2,3-Trichloropropane	20.23	61	12253	2.17 ug/l		83
73)	trans-1,4-Dichloro-2-buten	20.37	53	5886	1.68 ug/l	#	35
74)	n-Propylbenzene	20.49	91	178946	1.64 ug/l		98
75)	Bromobenzene	20.67	156	39836	1.80 ug/l		96
76)	2-Chlorotoluene	21.02	91	154178	2.47 ug/l		86
77)	1,3,5-Trimethylbenzene	20.93	105	117832	1.61 ug/l		99
78)	4-Chlorotoluene	21.16	91	135889	1.84 ug/l		97
79)	tert-Butylbenzene	21.97	119	95773	1.66 ug/l		94
80)	1,2,4-Trimethylbenzene	22.09	105	127179	1.74 ug/l		97
81)	sec-Butylbenzene	22.61	105	152893	1.64 ug/l		98
82)	p-Isopropyltoluene	23.00	119	107143	1.56 ug/l		97
83)	1,3-Dichlorobenzene	23.27	146	78202	1.97 ug/l		98
84)	1,4-Dichlorobenzene	23.53	146	78481	1.94 ug/l		97
85)	n-Butylbenzene	23.99	91	131162	1.66 ug/l		99
86)	1,2-Dichlorobenzene	24.38	146	79628	2.11 ug/l		76
87)	1,2-Dibromo-3-chloropropan	25.94	157	3800	1.02 ug/l	#	73
88)	1,2,4-Trichlorobenzene	27.74	180	56213	1.87 ug/l		98
89)	Hexachlorobutadiene	28.02	225	48785	2.02 ug/l		98
90)	Naphthalene	28.29	128	80814	1.51 ug/l		98
91)	1,2,3-Trichlorobenzene	28.79	180	51200	1.86 ug/l		98

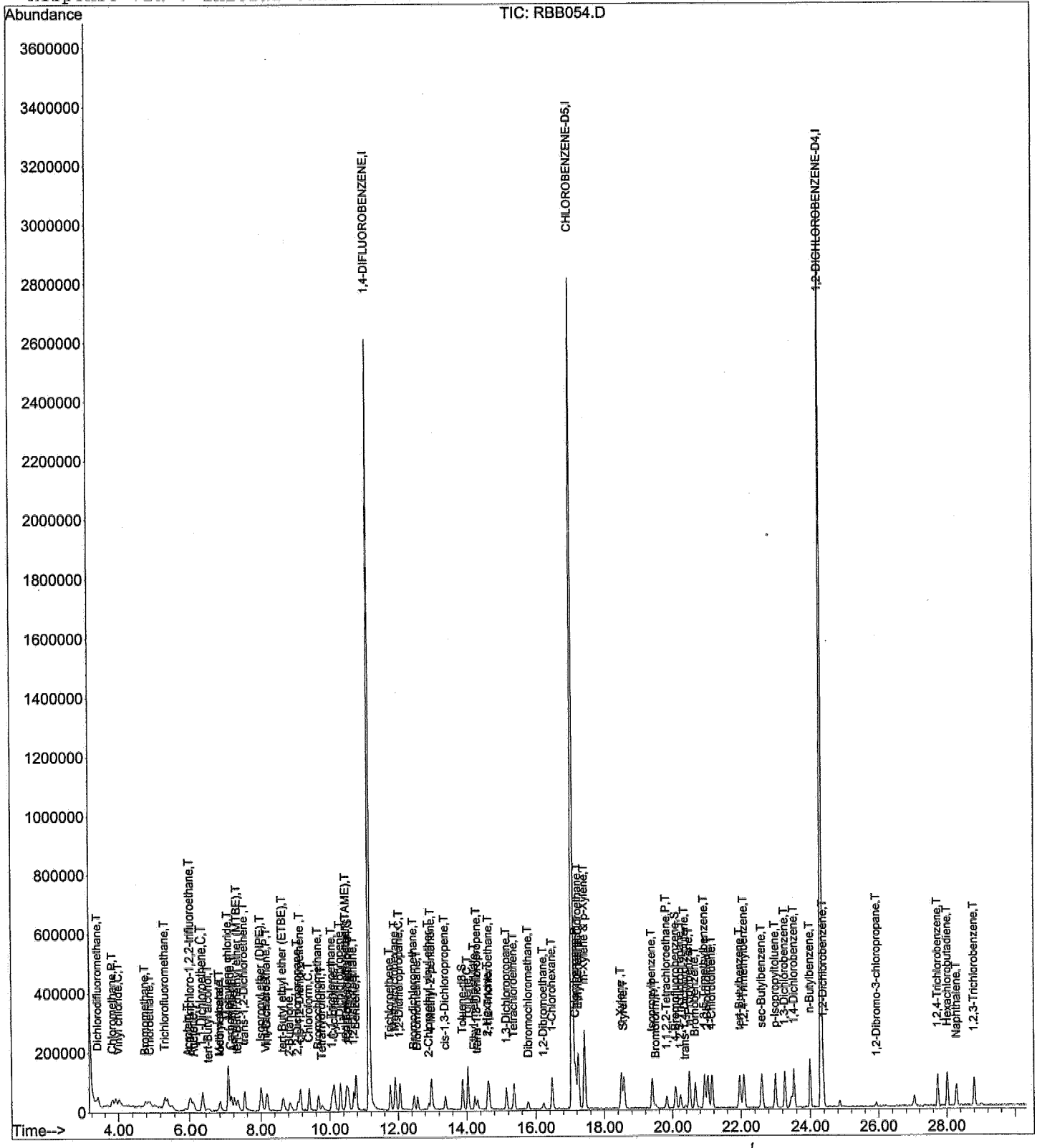
Rev 2-9-06

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\06B03\RBB054.D Vial: 2
Acq On : 3 Feb 2006 1:40 pm Operator: CGM
Sample : VO03B031 2/8/10 Inst : TO03
Misc : 2ppb 8260/8ppb Ket-AA/10ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:38 2006 Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06B03\RBB055.D Vial: 3
Acq On : 3 Feb 2006 2:17 pm Operator: CGM
Sample : VO03B032 5/20/25 Inst : TO03
Misc : 5ppb 8260/20ppb Ket-AA/25ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:39 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 08:39:18 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.15	114	2540899	50.00	ug/l		0.00
37) CHLOROBENZENE-D5	17.07	117	2376505	50.00	ug/l		0.00
67) 1,2-DICHLOROBENZENE-D4	24.32	152	1156593	50.00	ug/l		0.00
System Monitoring Compounds							
36) 1,2-Dichloroethane-d4	10.54	65	131877	5.20	ug/l		0.00
Spiked Amount 50.000			Recovery = 10.40%				
50) Toluene-d8	13.89	98	258877	5.39	ug/l		0.00
Spiked Amount 50.000			Recovery = 10.78%				
71) 4-Bromofluorobenzene	20.08	95	126718	5.28	ug/l		-0.02
Spiked Amount 50.000			Recovery = 10.56%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.38	85	116580	5.25	ug/l		96
3) Chloromethane	3.81	50	139159	4.77	ug/l		94
4) Vinyl chloride	4.02	62	97621	5.60	ug/l		97
5) Bromomethane	4.76	94	60881	4.64	ug/l		92
6) Chloroethane	4.88	64	53701	4.85	ug/l		96
7) Trichlorofluoromethane	5.31	101	125984	5.01	ug/l		99
9) Acrolein	5.98	56	39293	19.52	ug/l		94
10) 1,1,2-Trichloro-1,2,2-trif	6.03	151	61117	4.54	ug/l		95
11) Acetone	6.10	43	155161	18.17	ug/l		100
12) 1,1-Dichloroethene	6.31	61	199681	4.90	ug/l		100
13) tert-Butyl alcohol	6.44	59	27805	19.48	ug/l	#	50
15) Iodomethane	6.81	142	72636	4.69	ug/l		96
16) Methyl acetate	6.80	43	86653	4.06	ug/l		98
17) Methylene chloride	7.05	49	283488	4.25	ug/l		98
18) Carbon disulfide	7.13	76	260280	4.81	ug/l		100
19) Acrylonitrile	7.22	53	116557	18.51	ug/l		97
20) tert-Butyl methyl ether (M	7.32	73	139038	4.29	ug/l		98
21) trans-1,2-Dichloroethene	7.53	61	182632	4.80	ug/l		98
22) Isopropyl ether (DIPE)	8.00	45	364077	4.57	ug/l		100
23) 1,1-Dichloroethane	8.18	63	200596	4.86	ug/l		99
24) Vinyl acetate	8.14	43	184403	4.54	ug/l		100
25) tert-Butyl ethyl ether (ET	8.64	59	185630	4.12	ug/l		97
26) 2-Butanone	8.84	43	178303	16.93	ug/l		99
27) 2,2-Dichloropropane	9.07	77	73601	4.34	ug/l		91
28) cis-1,2-Dichloroethene	9.13	61	188044	4.75	ug/l		99
30) Chloroform	9.40	83	188394	4.85	ug/l		98
31) Bromochloromethane	9.67	49	115668	4.84	ug/l		98
32) Tetrahydrofuran	9.76	42	52262	7.82	ug/l		98
33) 1,1,1-Trichloroethane	10.05	97	129262	4.74	ug/l		98
34) Cyclohexane	10.13	56	171642	4.71	ug/l		98
35) tert-Amyl methyl ether (TA	10.48	73	143548	4.32	ug/l		88
38) 1,1-Dichloropropene	10.31	77	48291	5.02	ug/l		93
39) Carbon tetrachloride	10.50	119	87734	4.47	ug/l		98
40) 1,2-Dichloroethane	10.69	62	183264	5.03	ug/l		100
41) Benzene	10.77	78	360108	5.01	ug/l		99
42) Trichloroethene	11.78	130	93578	5.07	ug/l		95
43) Methylcyclohexane	11.91	83	139745	4.84	ug/l		98
44) 1,2-Dichloropropane	12.04	63	113229	5.05	ug/l		96

(#) = qualifier out of range (m) = manual integration
RBB055.D VO03B03.M Mon Feb 06 19:21:45 2006

2-9-06

2044

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06B03\RBB055.D Vial: 3
Acq On : 3 Feb 2006 2:17 pm Operator: CGM
Sample : VO03B032 5/20/25 Inst : TO03
Misc : 5ppb 8260/20ppb Ket-AA/25ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:39 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 08:39:18 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45)	Bromodichloromethane	12.46	83	109961	4.32 ug/l	98
46)	Dibromomethane	12.56	93	66952	5.08 ug/l	91
47)	2-Chloroethyl vinyl ether	12.89	63	34134	4.47 ug/l	94
48)	4-Methyl-2-pentanone	12.97	43	435712	17.97 ug/l	99
49)	cis-1,3-Dichloropropene	13.38	75	97961	4.13 ug/l	94
51)	Toluene	14.04	91	349356	4.89 ug/l	100
52)	Ethyl methacrylate	14.23	69	86851	4.30 ug/l	94
53)	trans-1,3-Dichloropropene	14.30	75	63927	3.71 ug/l	86
54)	1,1,2-Trichloroethane	14.65	97	71042	4.65 ug/l	98
55)	2-Hexanone	14.60	43	288367	17.92 ug/l	97
56)	1,3-Dichloropropane	15.15	76	129595	4.60 ug/l	98
57)	Tetrachloroethene	15.36	164	82813	5.01 ug/l	98
58)	Dibromochloromethane	15.77	129	55818	4.02 ug/l	95
59)	1,2-Dibromoethane	16.22	107	65117	4.78 ug/l	98
60)	1-Chlorohexane	16.47	91	110416	4.67 ug/l	90
61)	Chlorobenzene	17.16	112	241217	5.03 ug/l	96
62)	1,1,1,2-Tetrachloroethane	17.23	131	63469	4.41 ug/l	93
63)	Ethylbenzene	17.25	91	424938	5.00 ug/l	99
64)	m-Xylene & p-Xylene	17.42	91	713271	10.05 ug/l	100
65)	o-Xylene	18.51	91	329150	4.75 ug/l	99
66)	Styrene	18.58	104	225529	4.84 ug/l	99
68)	Bromoform	19.49	173	28640	3.58 ug/l	95
69)	Isopropylbenzene	19.40	105	323554	5.02 ug/l	99
70)	1,1,2,2-Tetrachloroethane	19.82	83	94265	4.93 ug/l	98
72)	1,2,3-Trichloropropane	20.22	61	25866	4.68 ug/l	92
73)	trans-1,4-Dichloro-2-buten	20.38	53	11782	3.89 ug/l	74
74)	n-Propylbenzene	20.50	91	485844	5.20 ug/l	98
75)	Bromobenzene	20.66	156	96682	4.89 ug/l	97
76)	2-Chlorotoluene	21.03	91	290671	4.43 ug/l	100
77)	1,3,5-Trimethylbenzene	20.93	105	309747	4.98 ug/l	99
78)	4-Chlorotoluene	21.15	91	331072	4.97 ug/l	99
79)	tert-Butylbenzene	21.97	119	249263	5.02 ug/l	99
80)	1,2,4-Trimethylbenzene	22.09	105	326373	5.08 ug/l	99
81)	sec-Butylbenzene	22.61	105	403533	5.07 ug/l	99
82)	p-Isopropyltoluene	23.00	119	290997	5.06 ug/l	100
83)	1,3-Dichlorobenzene	23.26	146	183483	4.96 ug/l	99
84)	1,4-Dichlorobenzene	23.53	146	186857	4.99 ug/l	98
85)	n-Butylbenzene	23.99	91	343717	5.05 ug/l	99
86)	1,2-Dichlorobenzene	24.38	146	181614	4.98 ug/l	92
87)	1,2-Dibromo-3-chloropropan	25.94	157	10448	3.95 ug/l	91
88)	1,2,4-Trichlorobenzene	27.74	180	135751	4.96 ug/l	99
89)	Hexachlorobutadiene	28.02	225	113088	4.95 ug/l	98
90)	Naphthalene	28.29	128	200903	4.55 ug/l	99
91)	1,2,3-Trichlorobenzene	28.81	180	118881	4.76 ug/l	98

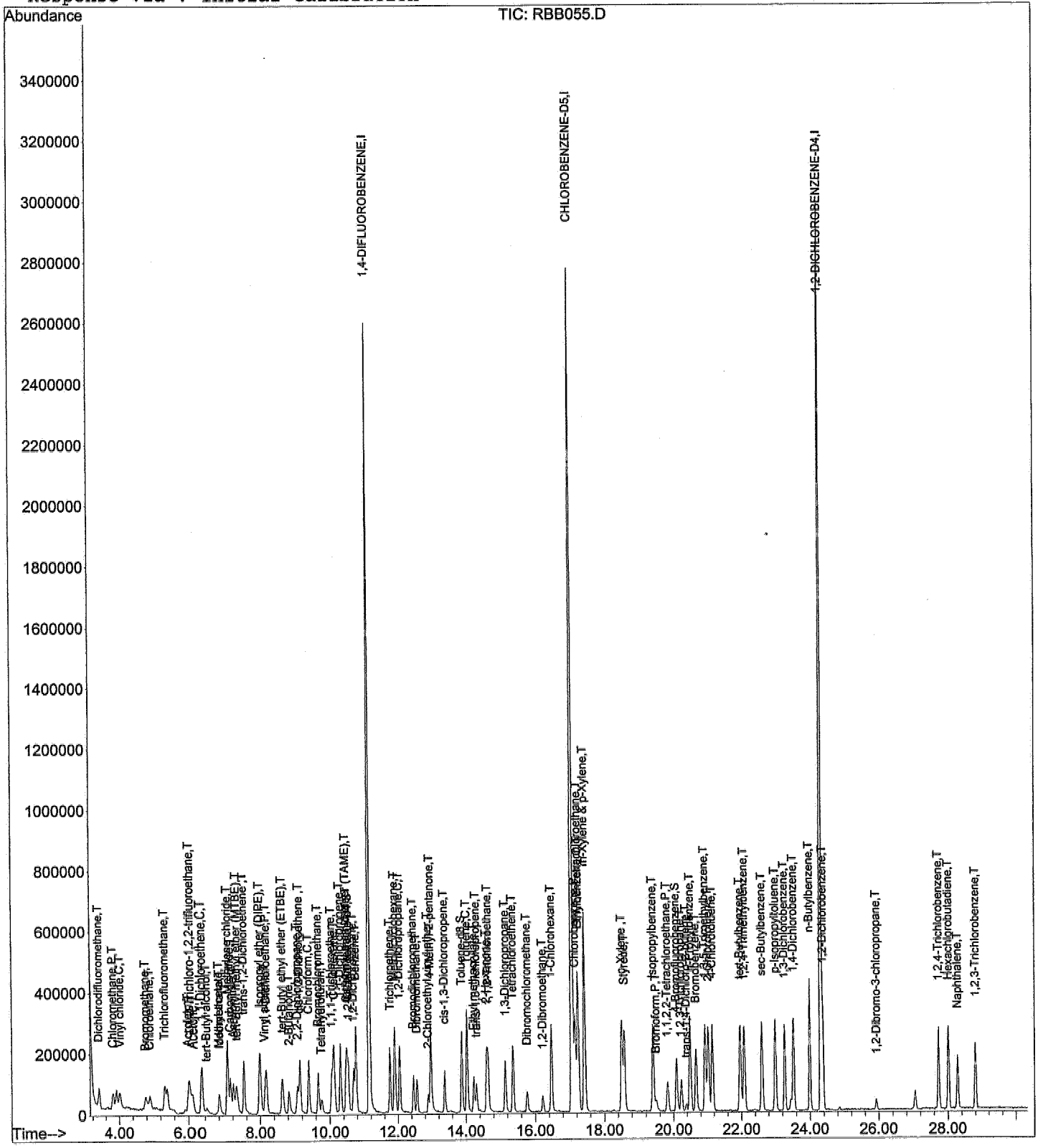
2-9-06

(#) = qualifier out of range (m) = manual integration
RBB055.D VO03B03.M Mon Feb 06 19:21:46 2006

Quantitation Report

Data File : D:\HPCHEM\1\DATA\06B03\RBB055.D Vial: 3
Acq On : 3 Feb 2006 2:17 pm Operator: CGM
Sample : VO03B032 5/20/25 Inst : TO03
Misc : 5ppb 8260/20ppb Ket-AA/25ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:39 2006 Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06B03\RBB056.D Vial: 4
Acq On : 3 Feb 2006 2:54 pm Operator: CGM
Sample : VO03B033 10/40/50 Inst : TO03
Misc : 10ppb 8260/40ppb Ket-AA/50ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:40 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 08:39:55 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.15	114	2171346	50.00	ug/l	0.00
37) CHLOROBENZENE-D5	17.06	117	2063654	50.00	ug/l	0.00
67) 1,2-DICHLOROBENZENE-D4	24.32	152	1078589	50.00	ug/l	0.00
System Monitoring Compounds						
36) 1,2-Dichloroethane-d4	10.54	65	234412	10.68	ug/l	0.00
Spiked Amount 50.000			Recovery =	21.36%		
50) Toluene-d8	13.88	98	481762	11.25	ug/l	0.00
Spiked Amount 50.000			Recovery =	22.50%		
71) 4-Bromofluorobenzene	20.10	95	238624	10.47	ug/l	0.00
Spiked Amount 50.000			Recovery =	20.94%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.39	85	203692	10.56	ug/l	98
3) Chloromethane	3.81	50	249278	10.15	ug/l	99
4) Vinyl chloride	4.00	62	164287	10.60	ug/l	97
5) Bromomethane	4.78	94	114440	10.46	ug/l	94
6) Chloroethane	4.89	64	96661	10.31	ug/l	97
7) Trichlorofluoromethane	5.33	101	213710	9.94	ug/l	99
9) Acrolein	5.98	56	77389	45.35	ug/l	94
10) 1,1,2-Trichloro-1,2,2-trif	6.02	151	106816	9.58	ug/l	96
11) Acetone	6.10	43	280770	39.69	ug/l	98
12) 1,1-Dichloroethene	6.31	61	335428	9.70	ug/l	99
13) tert-Butyl alcohol	6.44	59	51314	45.41	ug/l	73
15) Iodomethane	6.81	142	141106	10.89	ug/l	99
16) Methyl acetate	6.80	43	153823	8.99	ug/l	99
17) Methylene chloride	7.05	49	393557	7.26	ug/l	100
18) Carbon disulfide	7.14	76	463231	10.15	ug/l	99
19) Acrylonitrile	7.21	53	216131	41.18	ug/l	98
20) tert-Butyl methyl ether (M	7.32	73	255282	9.68	ug/l	98
21) trans-1,2-Dichloroethene	7.52	61	317921	9.91	ug/l	98
22) Isopropyl ether (DIPE)	7.98	45	657013	9.93	ug/l	100
23) 1,1-Dichloroethane	8.18	63	342130	9.79	ug/l	98
24) Vinyl acetate	8.13	43	332325	9.88	ug/l	100
25) tert-Butyl ethyl ether (ET	8.64	59	353601	9.76	ug/l	97
26) 2-Butanone	8.82	43	341531	39.99	ug/l	98
27) 2,2-Dichloropropane	9.08	77	127970	9.23	ug/l	93
28) cis-1,2-Dichloroethene	9.14	61	338939	10.19	ug/l	98
30) Chloroform	9.40	83	328881	10.00	ug/l	97
31) Bromochloromethane	9.66	49	202112	10.00	ug/l	98
32) Tetrahydrofuran	9.75	42	94205	17.78	ug/l	98
33) 1,1,1-Trichloroethane	10.07	97	230946	10.09	ug/l	98
34) Cyclohexane	10.12	56	324974	10.64	ug/l	98
35) tert-Amyl methyl ether (TA	10.48	73	266952	9.85	ug/l	92
38) 1,1-Dichloropropene	10.30	77	81413	9.73	ug/l	95
39) Carbon tetrachloride	10.50	119	167547	10.20	ug/l	98
40) 1,2-Dichloroethane	10.69	62	310742	9.81	ug/l	98
41) Benzene	10.76	78	626427	10.03	ug/l	99
42) Trichloroethene	11.77	130	158107	9.82	ug/l	98
43) Methylcyclohexane	11.91	83	264265	10.66	ug/l	99
44) 1,2-Dichloropropane	12.06	63	188743	9.66	ug/l	95

(#) = qualifier out of range (m) = manual integration

2047

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06B03\RBB056.D Vial: 4
Acq On : 3 Feb 2006 2:54 pm Operator: CGM
Sample : VO03B033 10/40/50 Inst : TO03
Misc : 10ppb 8260/40ppb Ket-AA/50ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:40 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 08:39:55 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45)	Bromodichloromethane	12.46	83	212389	10.07 ug/l	99
46)	Dibromomethane	12.56	93	111587	9.69 ug/l	98
47)	2-Chloroethyl vinyl ether	12.90	63	67031	10.48 ug/l	94
48)	4-Methyl-2-pentanone	12.96	43	855279	42.05 ug/l	100
49)	cis-1,3-Dichloropropene	13.38	75	192168	9.91 ug/l	96
51)	Toluene	14.03	91	628526	10.21 ug/l	97
52)	Ethyl methacrylate	14.23	69	167451	10.01 ug/l	91
53)	trans-1,3-Dichloropropene	14.30	75	126751	9.27 ug/l	93
54)	1,1,2-Trichloroethane	14.64	97	132103	10.19 ug/l	97
55)	2-Hexanone	14.60	43	573248	42.50 ug/l	97
56)	1,3-Dichloropropane	15.15	76	237806	9.99 ug/l	100
57)	Tetrachloroethene	15.37	164	141445	9.84 ug/l	98
58)	Dibromochloromethane	15.77	129	110517	9.80 ug/l	99
59)	1,2-Dibromoethane	16.22	107	121296	10.41 ug/l	99
60)	1-Chlorohexane	16.47	91	213045	10.61 ug/l	99
61)	Chlorobenzene	17.17	112	414051	9.92 ug/l	97
62)	1,1,1,2-Tetrachloroethane	17.23	131	120862	10.07 ug/l	96
63)	Ethylbenzene	17.24	91	745176	10.10 ug/l	100
64)	m-Xylene & p-Xylene	17.42	91	1246072	20.19 ug/l	98
65)	o-Xylene	18.51	91	622230	10.51 ug/l	99
66)	Styrene	18.58	104	413068	10.31 ug/l	99
68)	Bromoform	19.50	173	62805	9.29 ug/l	98
69)	Isopropylbenzene	19.40	105	592005	9.84 ug/l	98
70)	1,1,2,2-Tetrachloroethane	19.83	83	176413	9.94 ug/l	97
72)	1,2,3-Trichloropropane	20.23	61	47952	9.50 ug/l	95
73)	trans-1,4-Dichloro-2-buten	20.38	53	23788	9.10 ug/l	79
74)	n-Propylbenzene	20.50	91	897677	10.17 ug/l	99
75)	Bromobenzene	20.66	156	182216	9.96 ug/l	100
76)	2-Chlorotoluene	21.03	91	532850	9.05 ug/l	98
77)	1,3,5-Trimethylbenzene	20.93	105	589687	10.18 ug/l	98
78)	4-Chlorotoluene	21.15	91	624320	10.07 ug/l	100
79)	tert-Butylbenzene	21.97	119	471677	10.17 ug/l	99
80)	1,2,4-Trimethylbenzene	22.09	105	606763	10.08 ug/l	98
81)	sec-Butylbenzene	22.61	105	758828	10.17 ug/l	96
82)	p-Isopropyltoluene	22.99	119	540720	10.04 ug/l	100
83)	1,3-Dichlorobenzene	23.27	146	328445	9.54 ug/l	98
84)	1,4-Dichlorobenzene	23.53	146	336283	9.63 ug/l	97
85)	n-Butylbenzene	23.99	91	647100	10.16 ug/l	99
86)	1,2-Dichlorobenzene	24.37	146	317153	9.34 ug/l	96
87)	1,2-Dibromo-3-chloropropan	25.93	157	20748	9.05 ug/l	88
88)	1,2,4-Trichlorobenzene	27.73	180	249097	9.79 ug/l	96
89)	Hexachlorobutadiene	28.01	225	202414	9.53 ug/l	99
90)	Naphthalene	28.28	128	409594	10.26 ug/l	98
91)	1,2,3-Trichlorobenzene	28.80	180	224138	9.78 ug/l	100

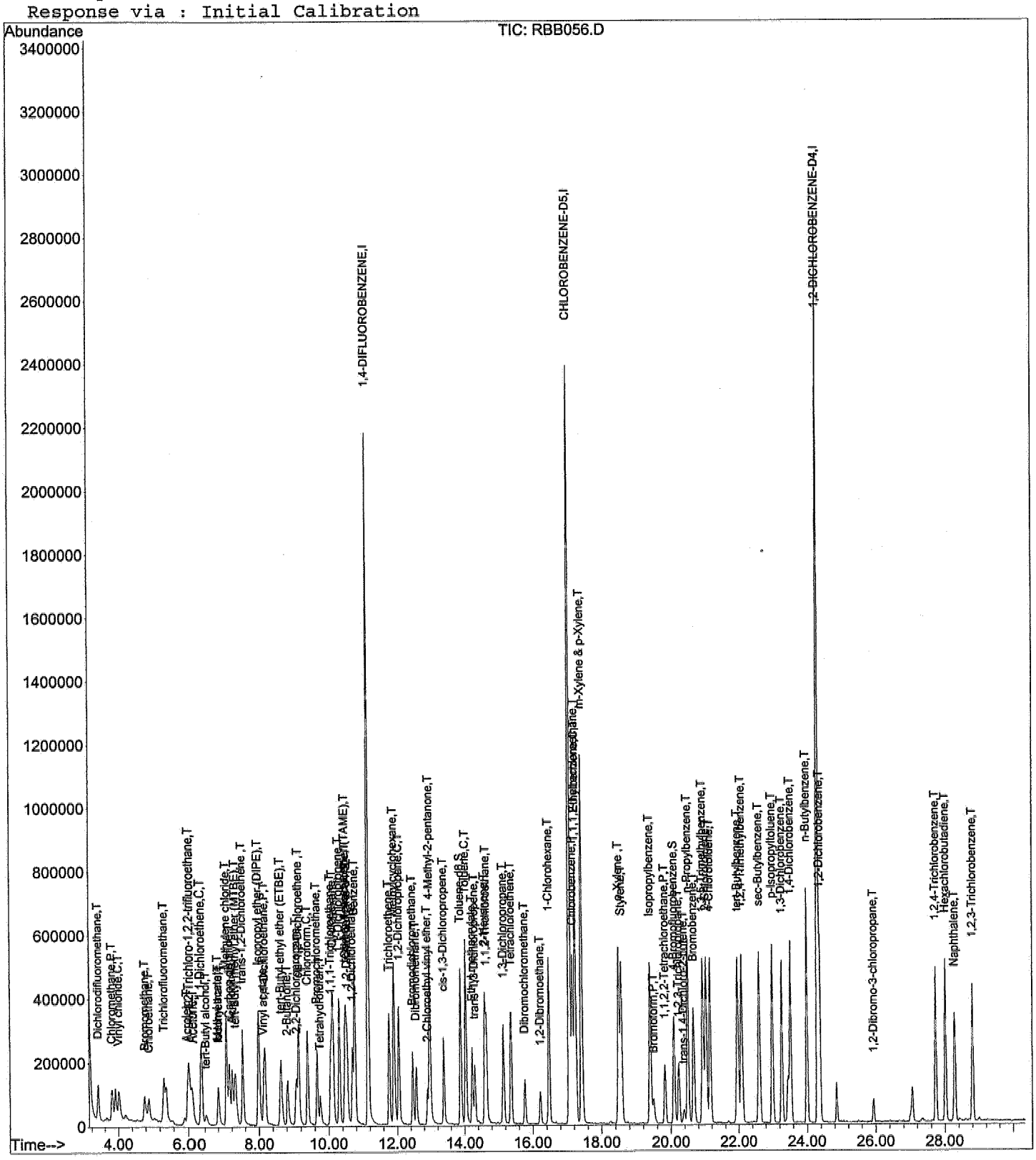
2-9-06

(#) = qualifier out of range (m) = manual integration
RBB056.D VO03B03.M Mon Feb 06 19:26:53 2006

Quantitation Report

Data File : D:\HPCHEM\1\DATA\06B03\RBB056.D Vial: 4
Acq On : 3 Feb 2006 2:54 pm Operator: CGM
Sample : VO03B033 10/40/50 Inst : TO03
Misc : 10ppb 8260/40ppb Ket-AA/50ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:40 2006 Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



2-9-06

2949

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06B03\RBB057.D Vial: 5
Acq On : 3 Feb 2006 3:32 pm Operator: CGM
Sample : VO03B034 20/80/100 Inst : TO03
Misc : 20ppb 8260/80ppb Ket-AA/100ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:40 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 08:40:40 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.15	114	2366101	50.00	ug/l	0.00
37) CHLOROBENZENE-D5	17.06	117	2098123	50.00	ug/l	0.00
67) 1,2-DICHLOROBENZENE-D4	24.31	152	1080497	50.00	ug/l	0.00
System Monitoring Compounds						
36) 1,2-Dichloroethane-d4	10.54	65	484999	19.94	ug/l	0.00
Spiked Amount 50.000			Recovery =	39.88%		
50) Toluene-d8	13.88	98	954032	21.25	ug/l	0.00
Spiked Amount 50.000			Recovery =	42.50%		
71) 4-Bromofluorobenzene	20.09	95	470337	20.35	ug/l	0.00
Spiked Amount 50.000			Recovery =	40.70%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.39	85	563725	26.46	ug/l	98
3) Chloromethane	3.81	50	625415	23.28	ug/l	98
4) Vinyl chloride	4.02	62	437110	25.50	ug/l	99
5) Bromomethane	4.77	94	311032	25.79	ug/l	100
6) Chloroethane	4.89	64	271094	26.34	ug/l	97
7) Trichlorofluoromethane	5.32	101	606294	25.92	ug/l	100
9) Acrolein	5.99	56	160337	83.44	ug/l	92
10) 1,1,2-Trichloro-1,2,2-trif	6.02	151	259735	21.60	ug/l	99
11) Acetone	6.10	43	587418	76.35	ug/l	100
12) 1,1-Dichloroethene	6.30	61	784676	20.98	ug/l	99
13) tert-Butyl alcohol	6.44	59	136302	113.28	ug/l	84
15) Iodomethane	6.81	142	358268	24.82	ug/l	99
16) Methyl acetate	6.79	43	356426	19.62	ug/l	99
17) Methylene chloride	7.05	49	845723	15.38	ug/l	99
18) Carbon disulfide	7.14	76	1119979	22.43	ug/l	100
19) Acrylonitrile	7.21	53	487144	84.56	ug/l	100
20) tert-Butyl methyl ether (M	7.30	73	661576	23.20	ug/l	98
21) trans-1,2-Dichloroethene	7.52	61	761750	21.84	ug/l	100
22) Isopropyl ether (DIPE)	7.98	45	1643259	22.84	ug/l	100
23) 1,1-Dichloroethane	8.18	63	838224	22.13	ug/l	100
24) Vinyl acetate	8.13	43	878361	24.03	ug/l	99
25) tert-Butyl ethyl ether (ET	8.62	59	970695	24.74	ug/l	99
26) 2-Butanone	8.82	43	807276	86.76	ug/l	100
27) 2,2-Dichloropropane	9.07	77	330792	22.33	ug/l	100
28) cis-1,2-Dichloroethene	9.14	61	803327	22.06	ug/l	99
30) Chloroform	9.40	83	765184	21.35	ug/l	100
31) Bromochloromethane	9.66	49	464473	21.09	ug/l	100
32) Tetrahydrofuran	9.75	42	213152	37.97	ug/l	97
33) 1,1,1-Trichloroethane	10.06	97	563043	22.52	ug/l	99
34) Cyclohexane	10.12	56	739793	21.88	ug/l	99
35) tert-Amyl methyl ether (TA	10.48	73	698175	23.73	ug/l	95
38) 1,1-Dichloropropene	10.30	77	195693	23.16	ug/l	95
39) Carbon tetrachloride	10.49	119	441398	26.29	ug/l	99
40) 1,2-Dichloroethane	10.69	62	712002	22.21	ug/l	99
41) Benzene	10.76	78	1442144	22.70	ug/l	100
42) Trichloroethene	11.77	130	364392	22.36	ug/l	99
43) Methylcyclohexane	11.91	83	581845	22.70	ug/l	99
44) 1,2-Dichloropropane	12.06	63	437328	22.21	ug/l	100

(#) = qualifier out of range (m) = manual integration
RBB057.D VO03B03.M Mon Feb 06 19:27:02 2006

2-9-06

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06B03\RBB057.D Vial: 5
Acq On : 3 Feb 2006 3:32 pm Operator: CGM
Sample : VO03B034 20/80/100 Inst : TO03
Misc : 20ppb 8260/80ppb Ket-AA/100ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:40 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 08:40:40 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45)	Bromodichloromethane	12.46	83	495151	23.05	ug/l	100
46)	Dibromomethane	12.56	93	253871	21.86	ug/l	99
47)	2-Chloroethyl vinyl ether	12.90	63	166497	25.30	ug/l	100
48)	4-Methyl-2-pentanone	12.96	43	1865728	89.08	ug/l	100
49)	cis-1,3-Dichloropropene	13.38	75	486487	24.72	ug/l	99
51)	Toluene	14.03	91	1330061	21.14	ug/l	99
52)	Ethyl methacrylate	14.22	69	406934	23.92	ug/l	98
53)	trans-1,3-Dichloropropene	14.30	75	345580	25.32	ug/l	97
54)	1,1,2-Trichloroethane	14.64	97	273018	20.61	ug/l	99
55)	2-Hexanone	14.60	43	1193785	85.71	ug/l	99
56)	1,3-Dichloropropane	15.15	76	515628	21.31	ug/l	99
57)	Tetrachloroethene	15.37	164	292068	20.07	ug/l	97
58)	Dibromochloromethane	15.77	129	279692	24.52	ug/l	99
59)	1,2-Dibromoethane	16.22	107	261767	21.88	ug/l	97
60)	1-Chlorohexane	16.47	91	479029	23.12	ug/l	99
61)	Chlorobenzene	17.15	112	867970	20.49	ug/l	99
62)	1,1,1,2-Tetrachloroethane	17.23	131	282032	23.08	ug/l	98
63)	Ethylbenzene	17.24	91	1593030	21.18	ug/l	100
64)	m-Xylene & p-Xylene	17.42	91	2658567	42.26	ug/l	100
65)	o-Xylene	18.50	91	1356278	22.25	ug/l	100
66)	Styrene	18.58	104	925251	22.54	ug/l	98
68)	Bromoform	19.50	173	166763	25.07	ug/l	99
69)	Isopropylbenzene	19.40	105	1338735	22.30	ug/l	99
70)	1,1,2,2-Tetrachloroethane	19.83	83	381320	21.48	ug/l	98
72)	1,2,3-Trichloropropane	20.23	61	103716	20.78	ug/l	91
73)	trans-1,4-Dichloro-2-buten	20.38	53	50669	19.80	ug/l	91
74)	n-Propylbenzene	20.50	91	1950798	21.96	ug/l	99
75)	Bromobenzene	20.67	156	388534	21.22	ug/l	100
76)	2-Chlorotoluene	21.03	91	1127409	19.58	ug/l	98
77)	1,3,5-Trimethylbenzene	20.93	105	1290748	22.15	ug/l	99
78)	4-Chlorotoluene	21.15	91	1319272	21.20	ug/l	100
79)	tert-Butylbenzene	21.97	119	1046297	22.42	ug/l	98
80)	1,2,4-Trimethylbenzene	22.09	105	1310810	21.69	ug/l	99
81)	sec-Butylbenzene	22.61	105	1684091	22.44	ug/l	100
82)	p-Isopropyltoluene	22.99	119	1233751	22.85	ug/l	100
83)	1,3-Dichlorobenzene	23.27	146	713343	20.93	ug/l	100
84)	1,4-Dichlorobenzene	23.53	146	726060	20.95	ug/l	99
85)	n-Butylbenzene	23.99	91	1443744	22.55	ug/l	99
86)	1,2-Dichlorobenzene	24.37	146	682053	20.38	ug/l	99
87)	1,2-Dibromo-3-chloropropan	25.93	157	53693	23.95	ug/l	93
88)	1,2,4-Trichlorobenzene	27.73	180	538580	21.24	ug/l	99
89)	Hexachlorobutadiene	28.01	225	450080	21.41	ug/l	99
90)	Naphthalene	28.28	128	911182	22.63	ug/l	99
91)	1,2,3-Trichlorobenzene	28.80	180	492887	21.59	ug/l	98

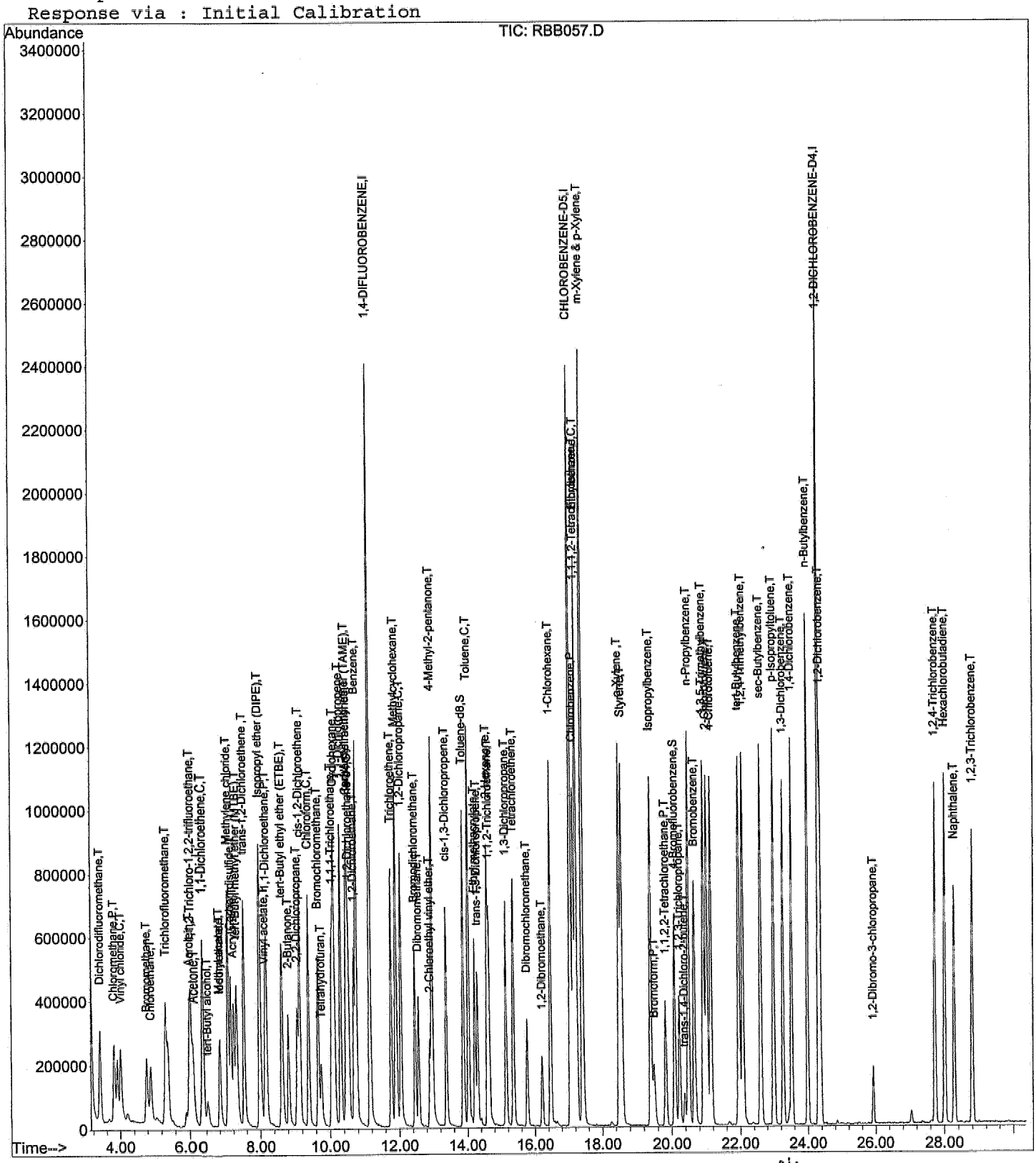
2-9-06

(#) = qualifier out of range (m) = manual integration
RBB057.D VO03B03.M Mon Feb 06 19:27:03 2006

Quantitation Report

Data File : D:\HPCHEM\1\DATA\06B03\RBB057.D Vial: 5
Acq On : 3 Feb 2006 3:32 pm Operator: CGM
Sample : VO03B034 20/80/100 Inst : TO03
Misc : 20ppb 8260/80ppb Ket-AA/100ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:40 2006 Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



8-9-06

2952

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06B03\RBB058.D Vial: 6
Acq On : 3 Feb 2006 4:09 pm Operator: CGM
Sample : VO03B035 50/200/250 Inst : TO03
Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:42 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 08:41:56 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.16	114	2354321	50.00	ug/l	0.00
37) CHLOROBENZENE-D5	17.07	117	2189381	50.00	ug/l	0.00
67) 1,2-DICHLOROBENZENE-D4	24.32	152	1126337	50.00	ug/l	0.00
System Monitoring Compounds						
36) 1,2-Dichloroethane-d4	10.55	65	1073153	44.37	ug/l	0.00
Spiked Amount 50.000			Recovery =	88.74%		
50) Toluene-d8	13.89	98	2290395	48.29	ug/l	0.00
Spiked Amount 50.000			Recovery =	96.58%		
71) 4-Bromofluorobenzene	20.10	95	1151509	47.64	ug/l	0.00
Spiked Amount 50.000			Recovery =	95.28%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.40	85	1082012	47.94	ug/l	100
3) Chloromethane	3.81	50	1252657	45.38	ug/l	100
4) Vinyl chloride	4.01	62	741077	41.18	ug/l	100
5) Bromomethane	4.77	94	636417	50.14	ug/l	100
6) Chloroethane	4.90	64	517218	47.49	ug/l	100
7) Trichlorofluoromethane	5.33	101	1143382	46.37	ug/l	100
9) Acrolein	5.98	56	429841	222.88	ug/l	100
10) 1,1,2-Trichloro-1,2,2-trif	6.03	151	599636	49.33	ug/l	100
11) Acetone	6.09	43	1456645	192.03	ug/l	100
12) 1,1-Dichloroethene	6.31	61	1787468	47.56	ug/l	100
13) tert-Butyl alcohol	6.44	59	370074	301.12	ug/l	99
15) Iodomethane	6.82	142	793122	52.69	ug/l	100
16) Methyl acetate	6.80	43	929688	51.62	ug/l	100
17) Methylene chloride	7.05	49	1837928	35.21	ug/l	100
18) Carbon disulfide	7.13	76	2692318	52.90	ug/l	100
19) Acrylonitrile	7.22	53	1254428	216.37	ug/l	100
20) tert-Butyl methyl ether (M	7.31	73	1817569	62.07	ug/l	100
21) trans-1,2-Dichloroethene	7.53	61	1784573	50.49	ug/l	100
22) Isopropyl ether (DIPE)	7.99	45	4056317	55.09	ug/l	100
23) 1,1-Dichloroethane	8.18	63	1955622	50.80	ug/l	100
24) Vinyl acetate	8.14	43	2240720	59.22	ug/l	100
25) tert-Butyl ethyl ether (ET	8.63	59	2514934	61.50	ug/l	100
26) 2-Butanone	8.81	43	2148720	228.22	ug/l	100
27) 2,2-Dichloropropane	9.07	77	940312	62.34	ug/l	100
28) cis-1,2-Dichloroethene	9.15	61	1914210	51.76	ug/l	100
30) Chloroform	9.40	83	1803845	49.92	ug/l	100
31) Bromochloromethane	9.67	49	1091560	49.28	ug/l	100
32) Tetrahydrofuran	9.74	42	630928	114.12	ug/l	100
33) 1,1,1-Trichloroethane	10.06	97	1413656	55.43	ug/l	100
34) Cyclohexane	10.12	56	1829846	53.39	ug/l	100
35) tert-Amyl methyl ether (TA	10.47	73	1889320	62.21	ug/l	100
38) 1,1-Dichloropropene	10.31	77	480788	52.86	ug/l	100
39) Carbon tetrachloride	10.50	119	1113638	59.81	ug/l	100
40) 1,2-Dichloroethane	10.69	62	1697222	49.64	ug/l	100
41) Benzene	10.77	78	3466115	50.91	ug/l	100
42) Trichloroethene	11.76	130	895131	51.42	ug/l	100
43) Methylcyclohexane	11.91	83	1485332	54.08	ug/l	100
44) 1,2-Dichloropropane	12.05	63	1099251	52.34	ug/l	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06B03\RBB058.D Vial: 6
Acq On : 3 Feb 2006 4:09 pm Operator: CGM
Sample : VO03B035 50/200/250 Inst : TO03
Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:42 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 08:41:56 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45)	Bromodichloromethane	12.46	83	1366004	59.13	ug/l	100
46)	Dibromomethane	12.57	93	646295	52.36	ug/l	100
47)	2-Chloroethyl vinyl ether	12.89	63	438700	60.67	ug/l	100
48)	4-Methyl-2-pentanone	12.95	43	5204851	232.87	ug/l	100
49)	cis-1,3-Dichloropropene	13.38	75	1401481	65.18	ug/l	100
51)	Toluene	14.04	91	3391321	51.08	ug/l	100
52)	Ethyl methacrylate	14.22	69	1135704	61.56	ug/l	99
53)	trans-1,3-Dichloropropene	14.31	75	1081020	72.07	ug/l	100
54)	1,1,2-Trichloroethane	14.65	97	737782	53.06	ug/l	100
55)	2-Hexanone	14.59	43	3447792	233.88	ug/l	100
56)	1,3-Dichloropropane	15.15	76	1403736	54.88	ug/l	100
57)	Tetrachloroethene	15.38	164	776673	51.11	ug/l	100
58)	Dibromochloromethane	15.78	129	824917	66.31	ug/l	100
59)	1,2-Dibromoethane	16.22	107	716163	56.30	ug/l	100
60)	1-Chlorohexane	16.47	91	1281288	57.46	ug/l	100
61)	Chlorobenzene	17.16	112	2211986	49.80	ug/l	100
62)	1,1,1,2-Tetrachloroethane	17.23	131	776911	59.10	ug/l	100
63)	Ethylbenzene	17.25	91	4034379	50.81	ug/l	100
64)	m-Xylene & p-Xylene	17.43	91	6757651	101.80	ug/l	100
65)	o-Xylene	18.51	91	3519717	54.12	ug/l	100
66)	Styrene	18.58	104	2422607	55.16	ug/l	100
68)	Bromoform	19.49	173	539845	74.09	ug/l	100
69)	Isopropylbenzene	19.40	105	3459493	54.03	ug/l	100
70)	1,1,2,2-Tetrachloroethane	19.83	83	1024353	54.55	ug/l	100
72)	1,2,3-Trichloropropane	20.23	61	258045	49.21	ug/l	100
73)	trans-1,4-Dichloro-2-buten	20.38	53	159959	60.08	ug/l	100
74)	n-Propylbenzene	20.49	91	5005390	53.02	ug/l	100
75)	Bromobenzene	20.66	156	1012346	52.40	ug/l	100
76)	2-Chlorotoluene	21.04	91	2888845	48.34	ug/l	99
77)	1,3,5-Trimethylbenzene	20.93	105	3357782	54.11	ug/l	100
78)	4-Chlorotoluene	21.16	91	3379606	51.48	ug/l	100
79)	tert-Butylbenzene	21.97	119	2674548	53.68	ug/l	100
80)	1,2,4-Trimethylbenzene	22.09	105	3343576	52.19	ug/l	100
81)	sec-Butylbenzene	22.61	105	4254673	53.09	ug/l	100
82)	p-Isopropyltoluene	23.00	119	3148885	54.39	ug/l	100
83)	1,3-Dichlorobenzene	23.28	146	1813579	50.58	ug/l	100
84)	1,4-Dichlorobenzene	23.53	146	1853418	50.82	ug/l	100
85)	n-Butylbenzene	23.99	91	3622779	52.92	ug/l	100
86)	1,2-Dichlorobenzene	24.38	146	1729152	49.38	ug/l	100
87)	1,2-Dibromo-3-chloropropan	25.94	157	170411	70.14	ug/l	100
88)	1,2,4-Trichlorobenzene	27.74	180	1377250	51.47	ug/l	100
89)	Hexachlorobutadiene	28.02	225	1107866	49.85	ug/l	100
90)	Naphthalene	28.29	128	2448686	56.85	ug/l	100
91)	1,2,3-Trichlorobenzene	28.81	180	1259559	52.10	ug/l	100

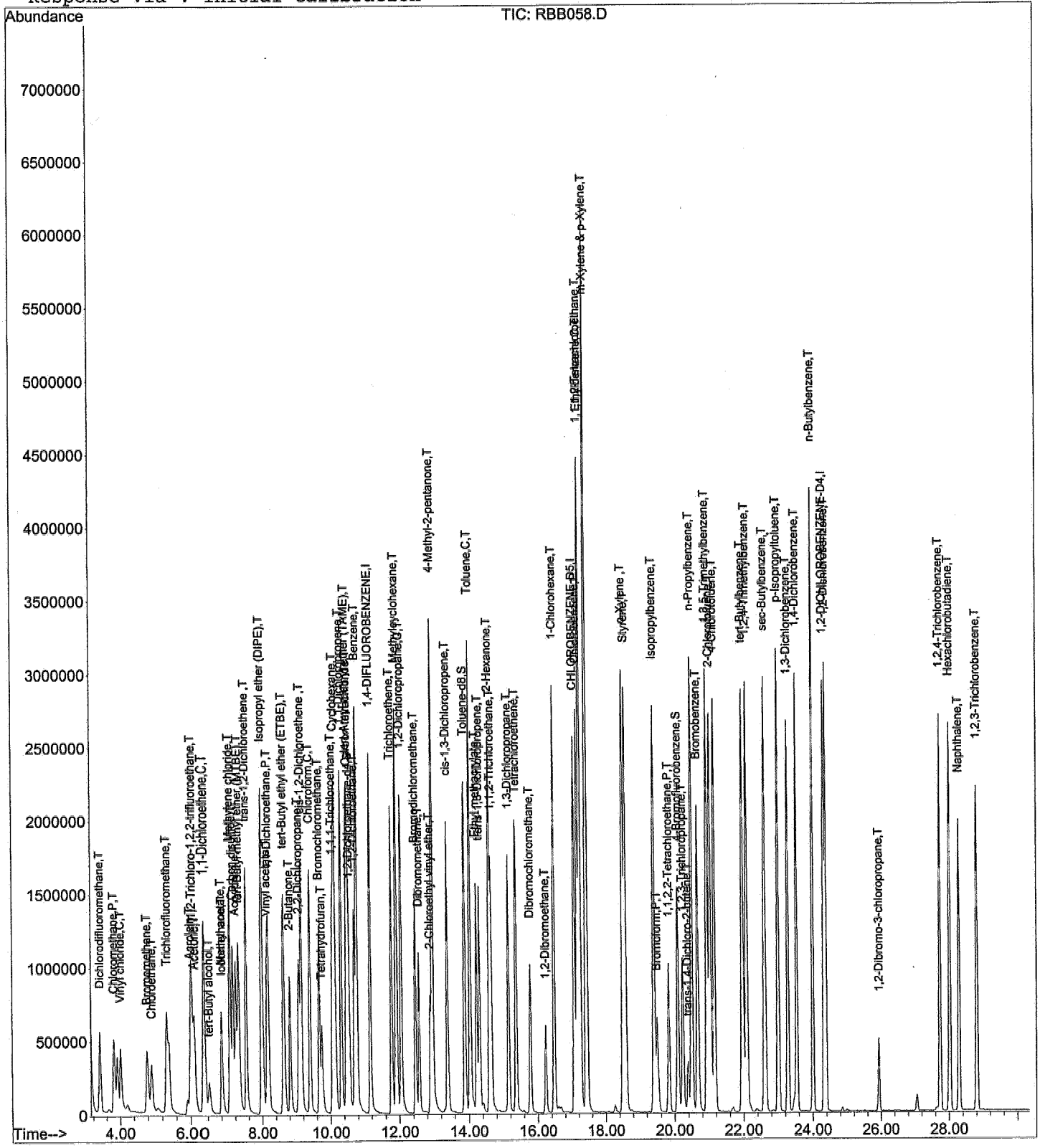
2-9-06

(#) = qualifier out of range (m) = manual integration
RBB058.D VO03B03.M Mon Feb 06 19:22:21 2006

Quantitation Report

Data File : D:\HPCHEM\1\DATA\06B03\RBB058.D Vial: 6
Acq On : 3 Feb 2006 4:09 pm Operator: CGM
Sample : VO03B035 50/200/250 Inst : TO03
Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:42 2006 Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06B03\RBB059.D Vial: 7
Acq On : 3 Feb 2006 4:46 pm Operator: CGM
Sample : VO03B036 80/320/400 Inst : TO03
Misc : 80ppb 8260/320ppb Ket-AA/400ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:45 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 08:44:55 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.15	114	2459458	50.00	ug/l	0.00
37) CHLOROBENZENE-D5	17.06	117	2303321	50.00	ug/l	0.00
67) 1,2-DICHLOROBENZENE-D4	24.32	152	1143708	50.00	ug/l	0.00
System Monitoring Compounds						
36) 1,2-Dichloroethane-d4	10.54	65	2183070	86.42	ug/l	0.00
Spiked Amount 50.000			Recovery =	172.84%		
50) Toluene-d8	13.88	98	4552299	91.21	ug/l	0.00
Spiked Amount 50.000			Recovery =	182.42%		
71) 4-Bromofluorobenzene	20.10	95	2271289	92.52	ug/l	0.00
Spiked Amount 50.000			Recovery =	185.04%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.39	85	1790997	75.96	ug/l	99
3) Chloromethane	3.83	50	2119361	73.48	ug/l	97
4) Vinyl chloride	4.00	62	1141803	60.72	ug/l	99
5) Bromomethane	4.76	94	1060576	79.94	ug/l	99
6) Chloroethane	4.90	64	856375	75.22	ug/l	97
7) Trichlorofluoromethane	5.33	101	1913626	74.26	ug/l	99
9) Acrolein	5.98	56	704989	349.69	ug/l	99
10) 1,1,2-Trichloro-1,2,2-trif	6.02	151	905451	71.26	ug/l	98
11) Acetone	6.10	43	2397060	302.58	ug/l	99
12) 1,1-Dichloroethene	6.31	61	2775174	70.69	ug/l	99
13) tert-Butyl alcohol	6.44	59	641985	498.51	ug/l	95
15) Iodomethane	6.81	142	1191056	75.67	ug/l	99
16) Methyl acetate	6.80	43	1590515	84.48	ug/l	100
17) Methylene chloride	7.05	49	2767252	50.75	ug/l	100
18) Carbon disulfide	7.14	76	4170439	78.47	ug/l	100
19) Acrylonitrile	7.21	53	2060467	339.92	ug/l	99
20) tert-Butyl methyl ether (M	7.30	73	2922536	95.45	ug/l	100
21) trans-1,2-Dichloroethene	7.53	61	2732008	73.99	ug/l	100
22) Isopropyl ether (DIPE)	7.99	45	6480614	84.23	ug/l	100
23) 1,1-Dichloroethane	8.18	63	3027752	75.28	ug/l	100
24) Vinyl acetate	8.13	43	3651444	92.32	ug/l	100
25) tert-Butyl ethyl ether (ET	8.62	59	4106818	96.11	ug/l	99
26) 2-Butanone	8.82	43	3596283	365.77	ug/l	100
27) 2,2-Dichloropropane	9.07	77	1511977	95.94	ug/l	97
28) cis-1,2-Dichloroethene	9.14	61	2951705	76.40	ug/l	100
30) Chloroform	9.40	83	2763880	73.17	ug/l	99
31) Bromochloromethane	9.66	49	1665779	71.91	ug/l	99
32) Tetrahydrofuran	9.74	42	1062001	183.44	ug/l	98
33) 1,1,1-Trichloroethane	10.07	97	2192200	82.29	ug/l	99
34) Cyclohexane	10.13	56	3037911	84.84	ug/l	100
35) tert-Amyl methyl ether (TA	10.47	73	3020926	95.21	ug/l	100
38) 1,1-Dichloropropene	10.30	77	730919	76.39	ug/l	97
39) Carbon tetrachloride	10.50	119	1737971	88.68	ug/l	100
40) 1,2-Dichloroethane	10.69	62	2662280	74.00	ug/l	98
41) Benzene	10.76	78	5307562	74.07	ug/l	99
42) Trichloroethene	11.77	130	1398807	76.35	ug/l	99
43) Methylcyclohexane	11.91	83	2474471	85.62	ug/l	98
44) 1,2-Dichloropropane	12.04	63	1723442	77.97	ug/l	99

(#) = qualifier out of range (m) = manual integration

2-9-06

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06B03\RBB059.D Vial: 7
Acq On : 3 Feb 2006 4:46 pm Operator: CGM
Sample : VO03B036 80/320/400 Inst : TO03
Misc : 80ppb 8260/320ppb Ket-AA/400ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:45 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 08:44:55 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45)	Bromodichloromethane	12.46	83	2145427	88.27 ug/l	100
46)	Dibromomethane	12.56	93	986344	75.95 ug/l	100
47)	2-Chloroethyl vinyl ether	12.89	63	719743	94.61 ug/l	99
48)	4-Methyl-2-pentanone	12.96	43	8574523	364.60 ug/l	99
49)	cis-1,3-Dichloropropene	13.38	75	2239402	98.97 ug/l	99
51)	Toluene	14.03	91	5280924	75.59 ug/l	99
52)	Ethyl methacrylate	14.23	69	1867977	96.19 ug/l	98
53)	trans-1,3-Dichloropropene	14.30	75	1725541	109.34 ug/l	99
54)	1,1,2-Trichloroethane	14.64	97	1141952	78.06 ug/l	98
55)	2-Hexanone	14.58	43	5777481	372.28 ug/l	100
56)	1,3-Dichloropropane	15.15	76	2204101	81.89 ug/l	99
57)	Tetrachloroethene	15.37	164	1193789	74.67 ug/l	99
58)	Dibromochloromethane	15.77	129	1327996	101.47 ug/l	100
59)	1,2-Dibromoethane	16.22	107	1089547	81.42 ug/l	98
60)	1-Chlorohexane	16.47	91	1983424	84.54 ug/l	99
61)	Chlorobenzene	17.15	112	3374519	72.21 ug/l	99
62)	1,1,1,2-Tetrachloroethane	17.23	131	1229394	88.90 ug/l	99
63)	Ethylbenzene	17.24	91	6119116	73.26 ug/l	99
64)	m-Xylene & p-Xylene	17.42	91	10063735	144.06 ug/l	99
65)	o-Xylene	18.51	91	5381097	78.64 ug/l	100
66)	Styrene	18.58	104	3705254	80.18 ug/l	100
68)	Bromoform	19.50	173	885252	119.66 ug/l	99
69)	Isopropylbenzene	19.40	105	5244561	80.67 ug/l	99
70)	1,1,2,2-Tetrachloroethane	19.83	83	1632218	85.61 ug/l	100
72)	1,2,3-Trichloropropane	20.23	61	421403	79.14 ug/l	93
73)	trans-1,4-Dichloro-2-buten	20.38	53	278332	102.94 ug/l	96
74)	n-Propylbenzene	20.50	91	7495898	78.19 ug/l	99
75)	Bromobenzene	20.68	156	1530964	78.05 ug/l	99
76)	2-Chlorotoluene	21.03	91	4345119	71.47 ug/l	99
77)	1,3,5-Trimethylbenzene	20.93	105	5044640	80.06 ug/l	100
78)	4-Chlorotoluene	21.15	91	5053460	75.81 ug/l	99
79)	tert-Butylbenzene	21.97	119	4025032	79.38 ug/l	99
80)	1,2,4-Trimethylbenzene	22.09	105	5072072	77.97 ug/l	99
81)	sec-Butylbenzene	22.61	105	6479793	79.63 ug/l	99
82)	p-Isopropyltoluene	22.99	119	4695629	79.88 ug/l	99
83)	1,3-Dichlorobenzene	23.28	146	2701725	74.20 ug/l	99
84)	1,4-Dichlorobenzene	23.53	146	2712315	73.24 ug/l	99
85)	n-Butylbenzene	23.99	91	5369735	77.25 ug/l	99
86)	1,2-Dichlorobenzene	24.38	146	2566708	72.19 ug/l	99
87)	1,2-Dibromo-3-chloropropan	25.94	157	278682	112.96 ug/l	95
88)	1,2,4-Trichlorobenzene	27.73	180	2107300	77.55 ug/l	99
89)	Hexachlorobutadiene	28.02	225	1706417	75.62 ug/l	99
90)	Naphthalene	28.28	128	3807703	87.06 ug/l	100
91)	1,2,3-Trichlorobenzene	28.80	180	1943321	79.16 ug/l	99

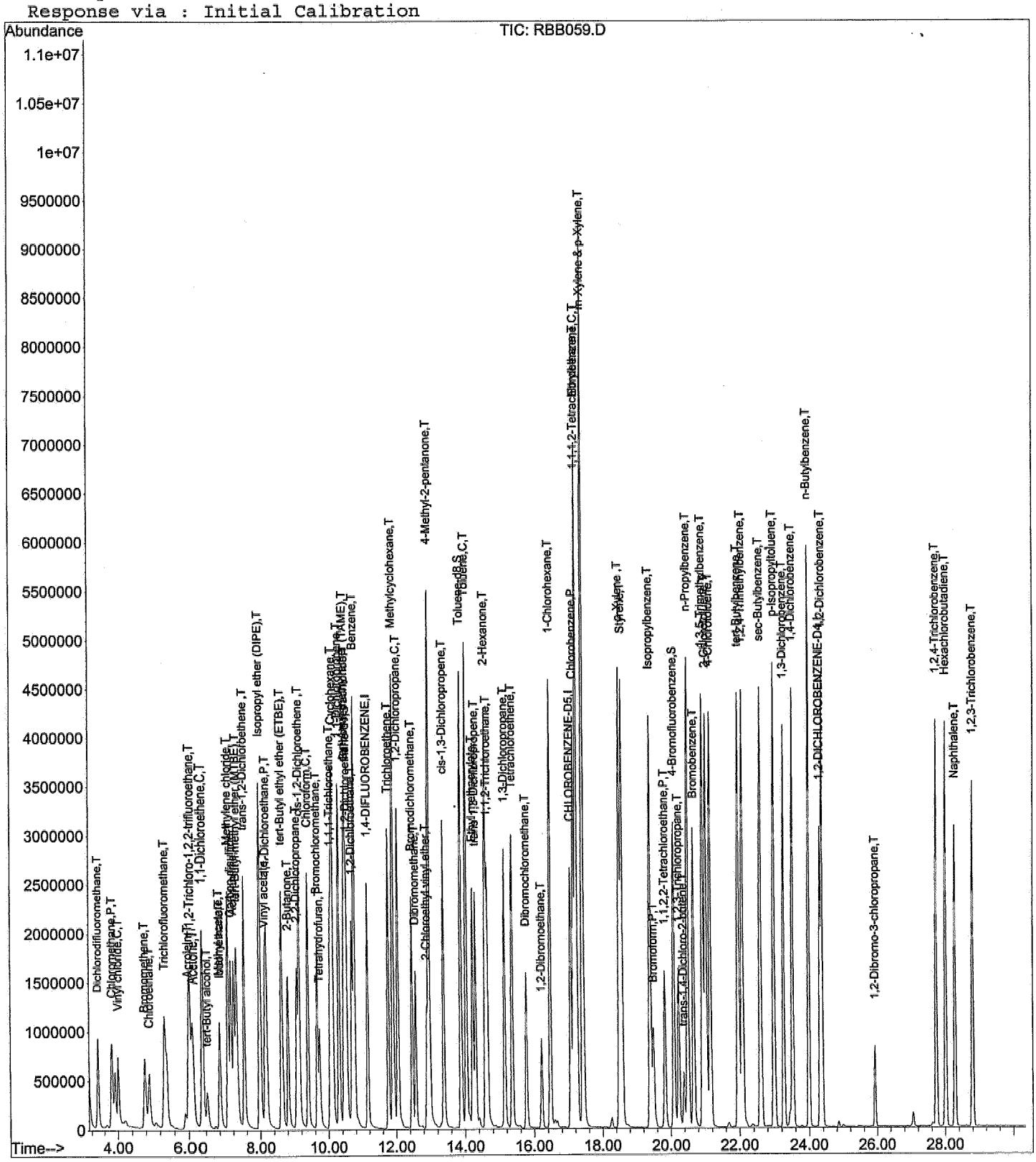
8-9-06

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\06B03\RBB059.D Vial: 7
Acq On : 3 Feb 2006 4:46 pm Operator: CGM
Sample : VO03B036 80/320/400 Inst : TO03
Misc : 80ppb 8260/320ppb Ket-AA/400ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:45 2006 Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06B03\RBB060.D Vial: 8
Acq On : 3 Feb 2006 5:24 pm Operator: CGM
Sample : VO03B037 100/400/500 Inst : TO03
Misc : 100ppb 8260/400ppb Ket-AA/500ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:46 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 08:46:09 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.15	114	2540569	50.00	ug/l	0.00
37) CHLOROBENZENE-D5	17.06	117	2242170	50.00	ug/l	0.00
67) 1,2-DICHLOROBENZENE-D4	24.32	152	1126128	50.00	ug/l	0.00
System Monitoring Compounds						
36) 1,2-Dichloroethane-d4	10.54	65	2656779	100.47	ug/l	0.00
Spiked Amount 50.000			Recovery =	200.94%		
50) Toluene-d8	13.88	98	5612584	112.89	ug/l	0.00
Spiked Amount 50.000			Recovery =	225.78%		
71) 4-Bromofluorobenzene	20.10	95	2796014	112.73	ug/l	0.00
Spiked Amount 50.000			Recovery =	225.46%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.39	85	2190512	90.70	ug/l	99
3) Chloromethane	3.81	50	2630249	89.50	ug/l	96
4) Vinyl chloride	4.00	62	1339767	71.86	ug/l	100
5) Bromomethane	4.76	94	1342628	97.98	ug/l	99
6) Chloroethane	4.89	64	1044207	89.68	ug/l	98
7) Trichlorofluoromethane	5.33	101	2350372	89.36	ug/l	99
9) Acrolein	5.98	56	840243	397.33	ug/l	99
10) 1,1,2-Trichloro-1,2,2-trif	6.02	151	1052187	81.65	ug/l	96
11) Acetone	6.10	43	2816550	347.33	ug/l	100
12) 1,1-Dichloroethene	6.31	61	3301015	83.01	ug/l	100
13) tert-Butyl alcohol	6.44	59	712848	514.73	ug/l	93
15) Iodomethane	6.81	142	1394856	86.57	ug/l	98
16) Methyl acetate	6.80	43	1902268	96.91	ug/l	100
17) Methylene chloride	7.05	49	3217376	60.83	ug/l	99
18) Carbon disulfide	7.14	76	4941719	90.30	ug/l	100
19) Acrylonitrile	7.21	53	2455627	388.15	ug/l	99
20) tert-Butyl methyl ether (M	7.30	73	3400984	104.18	ug/l	100
21) trans-1,2-Dichloroethene	7.52	61	3261024	86.58	ug/l	98
22) Isopropyl ether (DIPE)	7.98	45	7602310	94.82	ug/l	100
23) 1,1-Dichloroethane	8.18	63	3576397	86.94	ug/l	99
24) Vinyl acetate	8.13	43	4172665	99.57	ug/l	99
25) tert-Butyl ethyl ether (ET	8.62	59	4677979	102.54	ug/l	99
26) 2-Butanone	8.82	43	4223240	406.14	ug/l	100
27) 2,2-Dichloropropane	9.07	77	1796042	106.78	ug/l	97
28) cis-1,2-Dichloroethene	9.14	61	3486582	88.02	ug/l	100
30) Chloroform	9.40	83	3260366	84.76	ug/l	100
31) Bromochloromethane	9.66	49	1942499	82.57	ug/l	100
32) Tetrahydrofuran	9.74	42	1265757	206.61	ug/l	99
33) 1,1,1-Trichloroethane	10.07	97	2592020	93.75	ug/l	99
34) Cyclohexane	10.12	56	3837252	102.71	ug/l	99
35) tert-Amyl methyl ether (TA	10.47	73	3445732	101.90	ug/l	99
38) 1,1-Dichloropropene	10.30	77	852117	92.18	ug/l	96
39) Carbon tetrachloride	10.50	119	2024626	104.24	ug/l	100
40) 1,2-Dichloroethane	10.69	62	3097196	89.56	ug/l	98
41) Benzene	10.76	78	6172238	89.59	ug/l	98
42) Trichloroethene	11.77	130	1633306	92.28	ug/l	99
43) Methylcyclohexane	11.91	83	3091505	108.62	ug/l	100
44) 1,2-Dichloropropane	12.06	63	2012804	93.94	ug/l	99

(#) = qualifier out of range (m) = manual integration
RBB060.D VO03B03.M Mon Feb 06 19:22:45 2006

10-9-06

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06B03\RBB060.D Vial: 8
Acq On : 3 Feb 2006 5:24 pm Operator: CGM
Sample : VO03B037 100/400/500 Inst : TO03
Misc : 100ppb 8260/400ppb Ket-AA/500ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:46 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 08:46:09 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45)	Bromodichloromethane	12.46	83	2520737	104.73 ug/l	100
46)	Dibromomethane	12.56	93	1116522	89.07 ug/l	99
47)	2-Chloroethyl vinyl ether	12.89	63	821733	107.69 ug/l	99
48)	4-Methyl-2-pentanone	12.96	43	9869435	421.32 ug/l	99
49)	cis-1,3-Dichloropropene	13.38	75	2571821	112.32 ug/l	100
51)	Toluene	14.03	91	5972779	88.64 ug/l	100
52)	Ethyl methacrylate	14.23	69	2056489	105.23 ug/l	98
53)	trans-1,3-Dichloropropene	14.30	75	1985478	121.80 ug/l	99
54)	1,1,2-Trichloroethane	14.64	97	1294302	91.25 ug/l	98
55)	2-Hexanone	14.58	43	6598854	425.22 ug/l	100
56)	1,3-Dichloropropane	15.15	76	2467864	93.82 ug/l	99
57)	Tetrachloroethene	15.37	164	1355049	88.04 ug/l	99
58)	Dibromochloromethane	15.77	129	1503608	112.97 ug/l	100
59)	1,2-Dibromoethane	16.22	107	1215589	93.04 ug/l	96
60)	1-Chlorohexane	16.47	91	2288503	99.27 ug/l	99
61)	Chlorobenzene	17.15	112	3800498	84.92 ug/l	99
62)	1,1,1,2-Tetrachloroethane	17.23	131	1370847	99.98 ug/l	100
63)	Ethylbenzene	17.24	91	6855623	85.51 ug/l	99
64)	m-Xylene & p-Xylene	17.42	91	11389457	170.32 ug/l	99
65)	o-Xylene	18.51	91	6014497	90.55 ug/l	100
66)	Styrene	18.58	104	4189767	93.11 ug/l	100
68)	Bromoform	19.50	173	1001097	126.94 ug/l	100
69)	Isopropylbenzene	19.40	105	5953344	92.87 ug/l	99
70)	1,1,2,2-Tetrachloroethane	19.83	83	1795947	94.56 ug/l	99
72)	1,2,3-Trichloropropane	20.23	61	450102	86.00 ug/l	96
73)	trans-1,4-Dichloro-2-buten	20.38	53	314330	112.69 ug/l	98
74)	n-Propylbenzene	20.50	91	8512550	90.52 ug/l	99
75)	Bromobenzene	20.67	156	1709264	88.86 ug/l	99
76)	2-Chlorotoluene	21.03	91	4845933	82.42 ug/l	99
77)	1,3,5-Trimethylbenzene	20.93	105	5679526	91.53 ug/l	100
78)	4-Chlorotoluene	21.15	91	5765621	88.62 ug/l	100
79)	tert-Butylbenzene	21.97	119	4603844	92.33 ug/l	100
80)	1,2,4-Trimethylbenzene	22.09	105	5715086	89.60 ug/l	99
81)	sec-Butylbenzene	22.61	105	7365080	91.99 ug/l	100
82)	p-Isopropyltoluene	22.99	119	5399600	93.31 ug/l	99
83)	1,3-Dichlorobenzene	23.27	146	3068971	86.65 ug/l	99
84)	1,4-Dichlorobenzene	23.53	146	3103999	86.34 ug/l	99
85)	n-Butylbenzene	23.99	91	6165544	90.61 ug/l	99
86)	1,2-Dichlorobenzene	24.37	146	2884562	83.76 ug/l	100
87)	1,2-Dibromo-3-chloropropan	25.93	157	308576	118.87 ug/l	96
88)	1,2,4-Trichlorobenzene	27.73	180	2458882	92.37 ug/l	100
89)	Hexachlorobutadiene	28.02	225	1970013	89.48 ug/l	99
90)	Naphthalene	28.28	128	4276913	97.88 ug/l	99
91)	1,2,3-Trichlorobenzene	28.80	180	2212074	91.68 ug/l	99

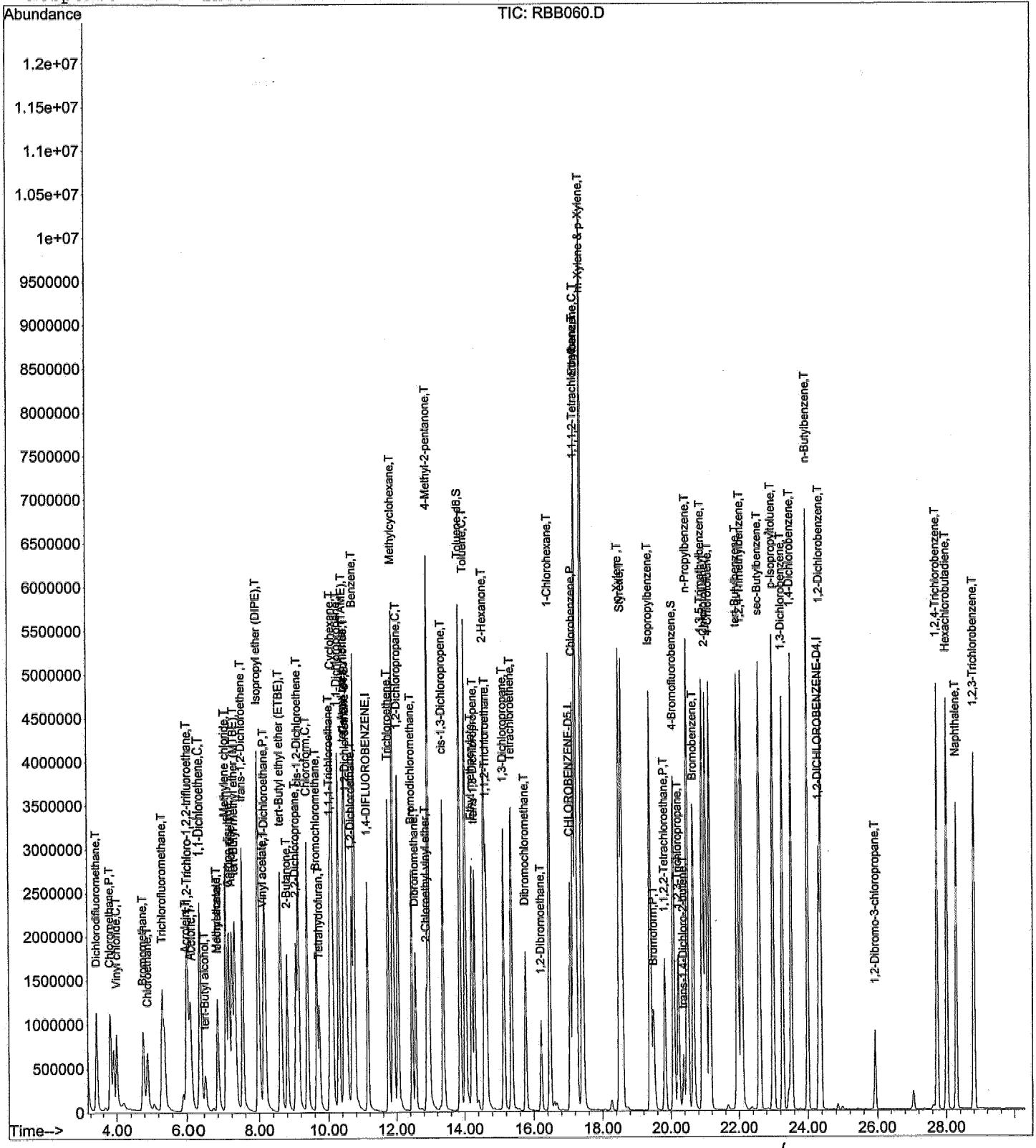
dv 2-9-06

(#) = qualifier out of range (m) = manual integration
RBB060.D VO03B03.M Mon Feb 06 19:22:46 2006

Quantitation Report

Data File : D:\HPCHEM\1\DATA\06B03\RBB060.D Vial: 8
Acq On : 3 Feb 2006 5:24 pm Operator: CGM
Sample : VO03B037 100/400/500 Inst : TO03
Misc : 100ppb 8260/400ppb Ket-AA/500ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:46 2006 Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



2-9-06

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Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06B03\RBB061.D Vial: 9
Acq On : 3 Feb 2006 6:01 pm Operator: CGM
Sample : VO03B038 200/800/1000 Inst : TO03
Misc : 200ppb 8260/800ppb Ket-AA/1000ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:46 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 08:46:36 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.15	114	2150874	50.00 ug/l	0.00
37) CHLOROBENZENE-D5	17.08	117	1941589	50.00 ug/l	0.00
67) 1,2-DICHLOROBENZENE-D4	24.31	152	979380	50.00 ug/l	0.00
System Monitoring Compounds					
36) 1,2-Dichloroethane-d4	10.54	65	4594048	205.07 ug/l	0.00
Spiked Amount 50.000			Recovery =	410.14%	
50) Toluene-d8	13.88	98	9811400	223.77 ug/l	0.00
Spiked Amount 50.000			Recovery =	447.54%	
71) 4-Bromofluorobenzene	20.09	95	4988191	227.13 ug/l	0.00
Spiked Amount 50.000			Recovery =	454.26%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.38	85	4210631	208.71 ug/l	98
3) Chloromethane	3.81	50	5533434	225.78 ug/l	97
4) Vinyl chloride	4.00	62	2471142	163.11 ug/l	99
5) Bromomethane	4.74	94	2560123	221.31 ug/l	98
6) Chloroethane	4.88	64	2001046	206.03 ug/l	99
7) Trichlorofluoromethane	5.31	101	4529992	206.58 ug/l	100
9) Acrolein	5.99	56	1556914	870.44 ug/l	96
10) 1,1,2-Trichloro-1,2,2-trif	6.01	151	2261491	212.87 ug/l	98
11) Acetone	6.10	43	5305491	787.62 ug/l	99
12) 1,1-Dichloroethene	6.30	61	6971220	212.21 ug/l	98
13) tert-Butyl alcohol	6.47	59	1631208	1385.43 ug/l	88
15) Iodomethane	6.81	142	2888428	215.89 ug/l	99
16) Methyl acetate	6.81	43	3632941	219.57 ug/l	99
17) Methylene chloride	7.05	49	6621843	156.65 ug/l	99
18) Carbon disulfide	7.12	76	10591785	231.82 ug/l	100
19) Acrylonitrile	7.23	53	4591916	860.97 ug/l	99
20) tert-Butyl methyl ether (M	7.30	73	7649434	275.13 ug/l	99
21) trans-1,2-Dichloroethene	7.52	61	6820297	218.06 ug/l	99
22) Isopropyl ether (DIPE)	7.98	45	16000222	237.48 ug/l	100
23) 1,1-Dichloroethane	8.18	63	7493418	219.26 ug/l	100
24) Vinyl acetate	8.13	43	8734580	246.35 ug/l	100
25) tert-Butyl ethyl ether (ET	8.62	59	10280106	265.19 ug/l	100
26) 2-Butanone	8.82	43	7779420	881.74 ug/l	99
27) 2,2-Dichloropropane	9.07	77	4207201	292.62 ug/l	97
28) cis-1,2-Dichloroethene	9.14	61	7437092	225.63 ug/l	98
30) Chloroform	9.40	83	6739495	211.57 ug/l	99
31) Bromochloromethane	9.66	49	4130769	212.69 ug/l	98
32) Tetrahydrofuran	9.74	42	2429823	466.28 ug/l	99
33) 1,1,1-Trichloroethane	10.06	97	5431426	234.12 ug/l	99
34) Cyclohexane	10.11	56	7036425	221.60 ug/l	99
35) tert-Amyl methyl ether (TA	10.47	73	7328677	255.30 ug/l	99
38) 1,1-Dichloropropene	10.30	77	1802146	227.67 ug/l	100
39) Carbon tetrachloride	10.50	119	4313160	254.90 ug/l	100
40) 1,2-Dichloroethane	10.69	62	6268991	212.51 ug/l	99
41) Benzene	10.76	78	12349354	210.13 ug/l	97
42) Trichloroethene	11.77	130	3339097	220.29 ug/l	99
43) Methylcyclohexane	11.91	83	5606514	224.71 ug/l	99
44) 1,2-Dichloropropane	12.06	63	4247625	230.93 ug/l	98

(#) = qualifier out of range (m) = manual integration
RBB061.D VO03B03.M Mon Feb 06 19:22:57 2006

2-9-06

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06B03\RBB061.D Vial: 9
Acq On : 3 Feb 2006 6:01 pm Operator: CGM
Sample : VO03B038 200/800/1000 Inst : TO03
Misc : 200ppb 8260/800ppb Ket-AA/1000ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:46 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 08:46:36 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45)	Bromodichloromethane	12.46	83	5288455	252.04 ug/l	99
46)	Dibromomethane	12.56	93	2287670	214.09 ug/l	99
47)	2-Chloroethyl vinyl ether	12.89	63	1739919	260.45 ug/l	99
48)	4-Methyl-2-pentanone	12.96	43	17533382	857.84 ug/l	98
49)	cis-1,3-Dichloropropene	13.38	75	5615208	278.31 ug/l	100
51)	Toluene	14.03	91	11954007	208.24 ug/l	100
52)	Ethyl methacrylate	14.22	69	4240457	248.73 ug/l	97
53)	trans-1,3-Dichloropropene	14.30	75	4452796	305.92 ug/l	98
54)	1,1,2-Trichloroethane	14.64	97	2663476	219.60 ug/l	99
55)	2-Hexanone	14.58	43	11531467	850.45 ug/l	99
56)	1,3-Dichloropropane	15.15	76	5042334	223.35 ug/l	99
57)	Tetrachloroethene	15.37	164	2807209	214.29 ug/l	99
58)	Dibromochloromethane	15.77	129	3319293	282.76 ug/l	99
59)	1,2-Dibromoethane	16.22	107	2569182	229.36 ug/l	98
60)	1-Chlorohexane	16.47	91	4738648	237.62 ug/l	99
61)	Chlorobenzene	17.17	112	7701023	203.09 ug/l	98
62)	1,1,1,2-Tetrachloroethane	17.23	131	2891704	243.56 ug/l	99
63)	Ethylbenzene	17.24	91	13500009	198.57 ug/l	97
64)	m-Xylene & p-Xylene	17.43	91	21369874	377.03 ug/l	96
65)	o-Xylene	18.50	91	12225549	215.46 ug/l	98
66)	Styrene	18.58	104	8594531	222.75 ug/l	99
68)	Bromoform	19.50	173	2301125	323.07 ug/l	100
69)	Isopropylbenzene	19.41	105	12107152	219.40 ug/l	98
70)	1,1,2,2-Tetrachloroethane	19.83	83	3739864	228.19 ug/l	99
72)	1,2,3-Trichloropropane	20.23	61	983814	220.55 ug/l	92
73)	trans-1,4-Dichloro-2-buten	20.38	53	820883	332.36 ug/l	100
74)	n-Propylbenzene	20.50	91	17181688	212.97 ug/l	98
75)	Bromobenzene	20.67	156	3562573	216.40 ug/l	99
76)	2-Chlorotoluene	21.03	91	9798517	196.55 ug/l	97
77)	1,3,5-Trimethylbenzene	20.94	105	11731443	220.05 ug/l	100
78)	4-Chlorotoluene	21.16	91	11793781	211.88 ug/l	100
79)	tert-Butylbenzene	21.97	119	9419688	219.63 ug/l	99
80)	1,2,4-Trimethylbenzene	22.09	105	11674732	213.63 ug/l	100
81)	sec-Butylbenzene	22.61	105	15074107	219.00 ug/l	99
82)	p-Isopropyltoluene	22.99	119	10945729	219.59 ug/l	97
83)	1,3-Dichlorobenzene	23.27	146	6206377	205.41 ug/l	99
84)	1,4-Dichlorobenzene	23.53	146	6362639	207.56 ug/l	98
85)	n-Butylbenzene	24.00	91	12427684	212.85 ug/l	97
86)	1,2-Dichlorobenzene	24.37	146	5899137	201.64 ug/l	99
87)	1,2-Dibromo-3-chloropropan	25.93	157	714427	308.14 ug/l	97
88)	1,2,4-Trichlorobenzene	27.73	180	5100246	222.74 ug/l	99
89)	Hexachlorobutadiene	28.01	225	4130797	219.04 ug/l	100
90)	Naphthalene	28.28	128	8874134	234.22 ug/l	99
91)	1,2,3-Trichlorobenzene	28.80	180	4587015	221.22 ug/l	98

.1

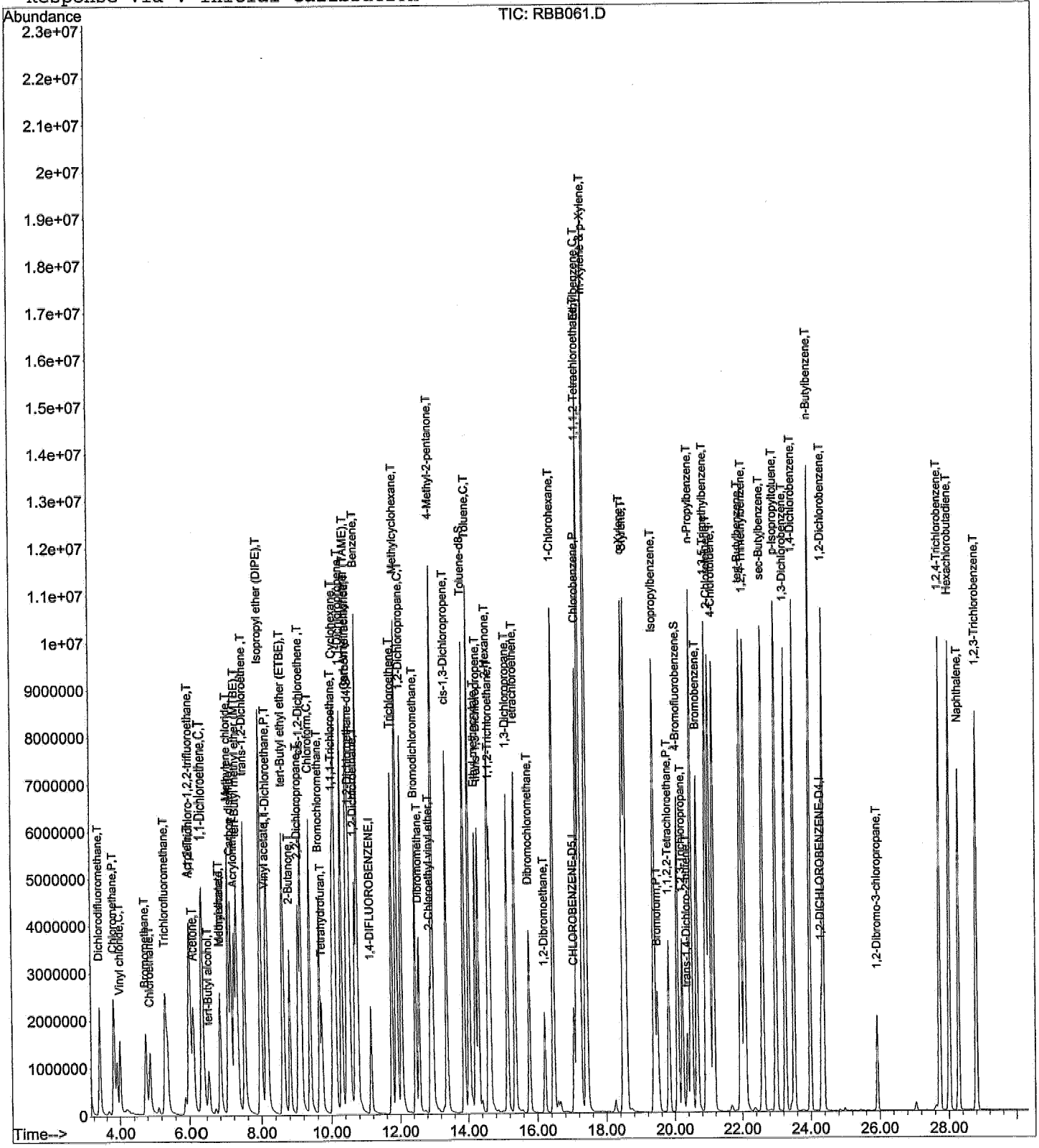
AE 2-9-06

(#) = qualifier out of range (m) = manual integration
RBB061.D VO03B03.M Mon Feb 06 19:22:57 2006

Quantitation Report

Data File : D:\HPCHEM\1\DATA\06B03\RBB061.D Vial: 9
Acq On : 3 Feb 2006 6:01 pm Operator: CGM
Sample : VO03B038 200/800/1000 Inst : TO03
Misc : 200ppb 8260/800ppb Ket-AA/1000ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 6 8:46 2006 Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\06B03\RBB062.D Vial: 10
Acq On : 3 Feb 2006 6:38 pm Operator: CGM
Sample : VO03B039 300/1200/1500 Inst : TO03
Misc : 300ppb 8260/1200ppb Ket-AA/1500ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 6 9:19 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 09:16:22 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.15	114	2112542	50.00	ug/l	0.00
37) CHLOROBENZENE-D5	17.06	117	2001320	50.00	ug/l	0.00
67) 1,2-DICHLOROBENZENE-D4	24.31	152	1065793	50.00	ug/l	0.00
System Monitoring Compounds						
36) 1,2-Dichloroethane-d4	10.54	65	5773672	265.35	ug/l	0.00
Spiked Amount 50.000			Recovery = 530.70%			
50) Toluene-d8	13.88	98	12151699	268.42	ug/l	0.00
Spiked Amount 50.000			Recovery = 536.84%			
71) 4-Bromofluorobenzene	20.09	95	6672047	277.13	ug/l	0.00
Spiked Amount 50.000			Recovery = 554.26%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.38	85	5204219	265.03	ug/l	98
3) Chloromethane	3.81	50	7622439	310.30	ug/l	97
4) Vinyl chloride	3.99	62	3043568	295.15	ug/l	99
5) Bromomethane	4.73	94	3001754	264.57	ug/l	100
6) Chloroethane	4.86	64	2270907	242.81	ug/l	98
7) Trichlorofluoromethane	5.30	101	5308681	250.53	ug/l	99
9) Acrolein	5.99	56	2025109	1146.54	ug/l	96
10) 1,1,2-Trichloro-1,2,2-trif	5.99	151	2648918	256.41	ug/l	97
11) Acetone	6.10	43	7198150	1101.30	ug/l	100
12) 1,1-Dichloroethene	6.29	61	8345590	260.88	ug/l	99
13) tert-Butyl alcohol	6.50	59	2385662	2062.98	ug/l	87
15) Iodomethane	6.80	142	3432760	258.67	ug/l	99
16) Methyl acetate	6.80	43	4797422	292.55	ug/l	99
17) Methylene chloride	7.03	49	8020238	264.15	ug/l	100
18) Carbon disulfide	7.11	76	12857044	282.91	ug/l	100
19) Acrylonitrile	7.23	53	6355443	1201.60	ug/l	99
20) tert-Butyl methyl ether (M	7.30	73	9676832	291.86	ug/l	98
21) trans-1,2-Dichloroethene	7.51	61	8341492	271.67	ug/l	98
22) Isopropyl ether (DIPE)	7.98	45	19525200	289.56	ug/l	100
23) 1,1-Dichloroethane	8.18	63	9013496	268.78	ug/l	99
24) Vinyl acetate	8.13	43	11068205	307.87	ug/l	99
25) tert-Butyl ethyl ether (ET	8.62	59	13335074	293.22	ug/l	99
26) 2-Butanone	8.82	43	11112415	1258.48	ug/l	100
27) 2,2-Dichloropropane	9.07	77	5170079	354.52	ug/l	96
28) cis-1,2-Dichloroethene	9.13	61	9097834	279.01	ug/l	99
30) Chloroform	9.40	83	8271418	266.17	ug/l	99
31) Bromochloromethane	9.66	49	5108936	269.14	ug/l	98
32) Tetrahydrofuran	9.74	42	3343332	635.27	ug/l	99
33) 1,1,1-Trichloroethane	10.05	97	6751257	291.17	ug/l	99
34) Cyclohexane	10.11	56	8506709	272.24	ug/l	99
35) tert-Amyl methyl ether (TA	10.47	73	9577721	314.13	ug/l	98
38) 1,1-Dichloropropene	10.30	77	2211110	269.75	ug/l	99
39) Carbon tetrachloride	10.50	119	5247374	281.54	ug/l	98
40) 1,2-Dichloroethane	10.69	62	7743928	257.21	ug/l	100
41) Benzene	10.76	78	15115278	252.82	ug/l	96
42) Trichloroethene	11.76	130	4146124	265.78	ug/l	99
43) Methylcyclohexane	11.91	83	6722206	261.53	ug/l	97
44) 1,2-Dichloropropane	12.04	63	5268192	275.39	ug/l	99

(#) = qualifier out of range (m) = manual integration

2065

for 2-9-06

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\06B03\RBB062.D Vial: 10
Acq On : 3 Feb 2006 6:38 pm Operator: CGM
Sample : VO03B039 300/1200/1500 Inst : TO03
Misc : 300ppb 8260/1200ppb Ket-AA/1500ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 6 9:19 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 09:16:22 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) Bromodichloromethane	12.46	83	6708032	300.34 ug/l	99
46) Dibromomethane	12.56	93	2942609	268.33 ug/l	99
47) 2-Chloroethyl vinyl ether	12.89	63	2487815	328.30 ug/l	99
48) 4-Methyl-2-pentanone	12.96	43	25031774	1179.97 ug/l	97
49) cis-1,3-Dichloropropene	13.38	75	7240254	282.98 ug/l	99
51) Toluene	14.03	91	14818624	253.94 ug/l	98
52) Ethyl methacrylate	14.23	69	5752937	305.37 ug/l	96
53) trans-1,3-Dichloropropene	14.30	75	6028675	292.65 ug/l	98
54) 1,1,2-Trichloroethane	14.64	97	3430151	273.99 ug/l	97
55) 2-Hexanone	14.60	43	17223857	1220.15 ug/l	98
56) 1,3-Dichloropropane	15.15	76	6687726	285.02 ug/l	99
57) Tetrachloroethene	15.37	164	3554553	264.74 ug/l	99
58) Dibromochloromethane	15.77	129	4451176	289.73 ug/l	99
59) 1,2-Dibromoethane	16.22	107	3514373	299.02 ug/l	98
60) 1-Chlorohexane	16.47	91	6108991	291.41 ug/l	98
61) Chlorobenzene	17.17	112	9880884	256.85 ug/l	97
62) 1,1,1,2-Tetrachloroethane	17.23	131	3771461	300.01 ug/l	100
63) Ethylbenzene	17.24	91	16879231	246.46 ug/l	97
64) m-Xylene & p-Xylene	17.44	91	25536644	453.68 ug/l	93
65) o-Xylene	18.51	91	15634850	268.27 ug/l	97
66) Styrene	18.58	104	11134918	278.52 ug/l	98
68) Bromoform	19.50	173	3247390	291.63 ug/l	99
69) Isopropylbenzene	19.41	105	15519358	259.63 ug/l	96
70) 1,1,2,2-Tetrachloroethane	19.83	83	5358852	295.78 ug/l	100
72) 1,2,3-Trichloropropane	20.23	61	1386793	283.95 ug/l	94
73) trans-1,4-Dichloro-2-buten	20.38	53	1212554	388.37 ug/l	99
74) n-Propylbenzene	20.50	91	21993038	253.32 ug/l	97
75) Bromobenzene	20.67	156	4741896	265.73 ug/l	99
76) 2-Chlorotoluene	21.03	91	16988787	312.23 ug/l	88
77) 1,3,5-Trimethylbenzene	20.94	105	15282897	264.06 ug/l	99
78) 4-Chlorotoluene	21.16	91	15629319	260.35 ug/l	100
79) tert-Butylbenzene	21.97	119	12474102	267.60 ug/l	98
80) 1,2,4-Trimethylbenzene	22.09	105	15460885	261.88 ug/l	100
81) sec-Butylbenzene	22.61	105	19429486	260.56 ug/l	98
82) p-Isopropyltoluene	22.99	119	14381562	265.67 ug/l	96
83) 1,3-Dichlorobenzene	23.27	146	8356376	257.75 ug/l	99
84) 1,4-Dichlorobenzene	23.53	146	8323295	253.18 ug/l	96
85) n-Butylbenzene	24.00	91	16352260	259.61 ug/l	97
86) 1,2-Dichlorobenzene	24.37	146	8032760	256.61 ug/l	99
87) 1,2-Dibromo-3-chloropropan	25.93	157	1044370	297.42 ug/l	96
88) 1,2,4-Trichlorobenzene	27.73	180	6954202	277.73 ug/l	99
89) Hexachlorobutadiene	28.01	225	5701799	277.17 ug/l	100
90) Naphthalene	28.28	128	12542442	298.07 ug/l	97
91) 1,2,3-Trichlorobenzene	28.80	180	6462624	284.48 ug/l	99

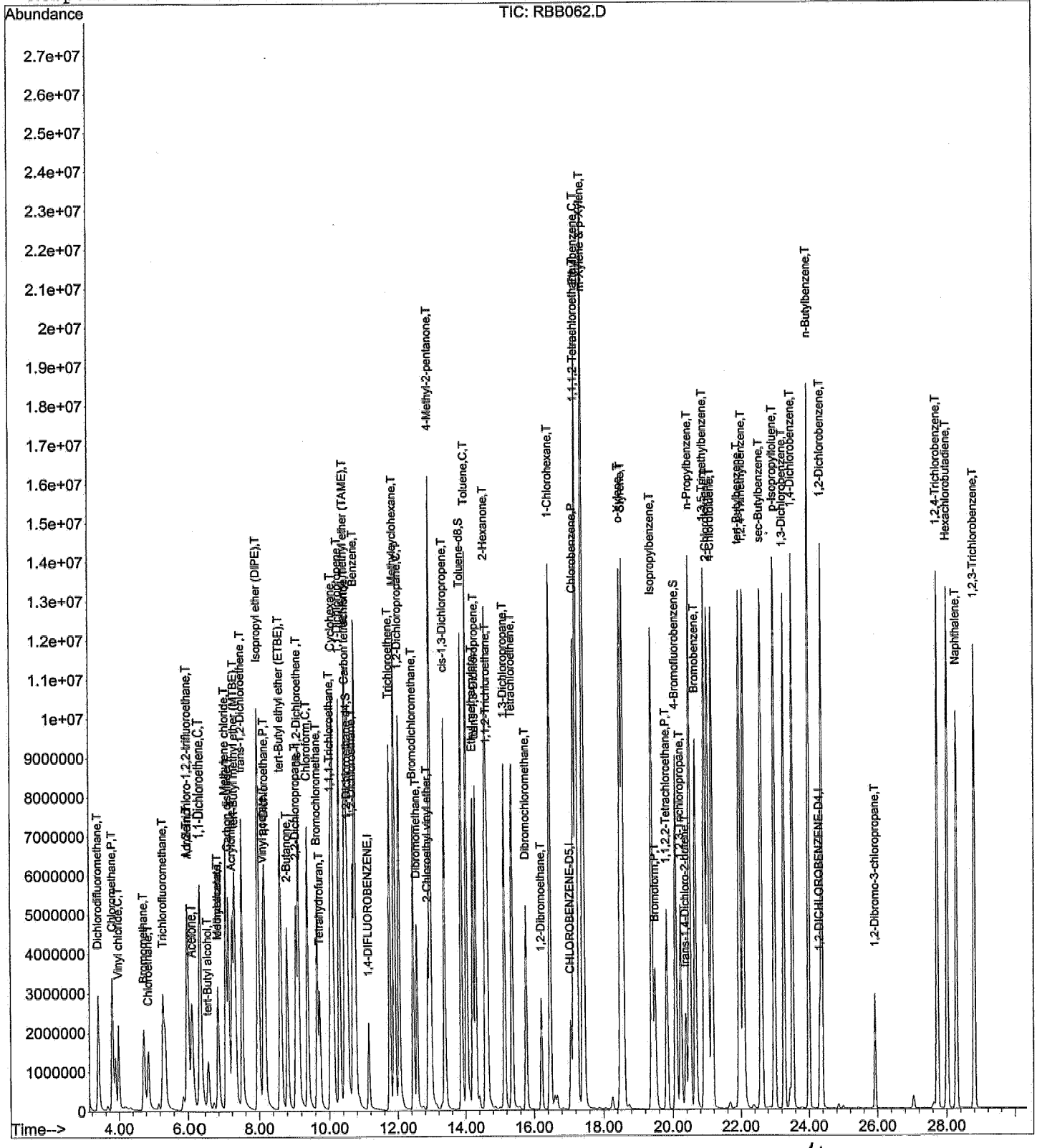
2-9-06

(#) = qualifier out of range (m) = manual integration
RBB062.D VO03B03.M Mon Feb 06 19:23:09 2006

Quantitation Report

Data File : D:\HPCHEM\1\DATA\06B03\RBB062.D Vial: 10
Acq On : 3 Feb 2006 6:38 pm Operator: CGM
Sample : VO03B039 300/1200/1500 Inst : TO03
Misc : 300ppb 8260/1200ppb Ket-AA/1500ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 6 9:19 2006 Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



SECOND SOURCE VERIFICATION

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06B03\RBB065.D Vial: 13
Acq On : 3 Feb 2006 8:30 pm Operator: CGM
Sample : IVO03B031 50/200/250 Inst : TO03
Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Multiple Level Calibration

* Not valid for Acrolein.

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.		%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	50.000	50.000		0.0	103	0.00
2	T	Dichlorodifluoromethane	50.000	44.633		10.7	93	-0.02
3	P,T	Chloromethane	50.000	43.649		12.7	98	0.00
4	C,T	Vinyl chloride	50.000	41.305		17.4	97	0.00
5	T	Bromomethane	50.000	45.234		9.5	92	0.00
6	T	Chloroethane	50.000	46.754		6.5	97	0.00
7	T	Trichlorofluoromethane	50.000	47.715		4.6	101	0.00
8	T	sec-Propyl alcohol	-1.000	0.000		0.0	110	0.00
9	T	Acrolein	200.000	261.514	*	-30.8#	123	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	50.000	47.141		5.7	93	0.00
11	T	Acetone	200.000	190.680		4.7	98	0.00
12	C,T	1,1-Dichloroethene	50.000	46.201		7.6	95	0.00
13	T	tert-Butyl alcohol	250.000	261.609		-4.6	94	0.00
14	T	Acetonitrile	-1.000	0.000		0.0	93	0.00
15	T	Iodomethane	50.000	62.362		-24.7#	120	0.00
17	T	Methylene chloride	50.000	48.323		3.4	96	0.00
18	T	Carbon disulfide	50.000	54.524		-9.0	105	0.00
19	T	Acrylonitrile	200.000	195.623		2.2	94	0.00
20	T	tert-Butyl methyl ether (MT	50.000	45.927		8.1	94	0.00
21	T	trans-1,2-Dichloroethene	50.000	48.895		2.2	96	0.00
22	T	Isopropyl ether (DIPE)	50.000	52.871		-5.7	101	0.00
23	P,T	1,1-Dichloroethane	50.000	49.446		1.1	97	0.00
24	T	Vinyl acetate	50.000	51.347		-2.7	94	0.00
25	T	tert-Butyl ethyl ether (ETB	50.000	48.744		2.5	99	0.00
26	T	2-Butanone	200.000	201.435		-0.7	95	0.00
27	T	2,2-Dichloropropane	50.000	54.521		-9.0	97	0.00
28	T	cis-1,2-Dichloroethene	50.000	48.941		2.1	96	0.00
29	T	tert-Butyl formate (TBF)	-1.000	0.000		0.0	95	-0.02
30	C,T	Chloroform	50.000	48.963		2.1	97	0.00
31	T	Bromochloromethane	50.000	46.360		7.3	92	0.00
32	T	Tetrahydrofuran	100.000	97.525		2.5	93	0.00
33	T	1,1,1-Trichloroethane	50.000	50.012		-0.0	94	0.00
35	T	tert-Amyl methyl ether (TAM	50.000	50.294		-0.6	93	0.00
36	S	1,2-Dichloroethane-d4	50.000	51.093		-2.2	119	0.00
37	I	CHLOROBENZENE-D5	50.000	50.000		0.0	100	0.00
38	T	1,1-Dichloropropene	50.000	49.532		0.9	92	0.00
39	T	Carbon tetrachloride	50.000	50.148		-0.3	92	0.00
40	T	1,2-Dichloroethane	50.000	48.004		4.0	93	0.00
41	T	Benzene	50.000	50.786		-1.6	96	0.00
42	T	Trichloroethene	50.000	48.587		2.8	93	0.00
44	C,T	1,2-Dichloropropane	50.000	50.166		-0.3	96	0.00
45	T	Bromodichloromethane	50.000	49.451		1.1	89	0.00
46	T	Dibromomethane	50.000	48.574		2.9	90	0.00
47	T	2-Chloroethyl vinyl ether	50.000	53.642		-7.3	101	0.00
48	T	4-Methyl-2-pentanone	200.000	208.169		-4.1	93	0.00
49	T	cis-1,3-Dichloropropene	50.000	45.871		8.3	88	0.00
50	S	Toluene-d8	50.000	55.532		-11.1	120	-0.02
51	C,T	Toluene	50.000	49.937		0.1	94	0.00
52	T	Ethyl methacrylate	50.000	50.297		-0.6	91	0.00
53	T	trans-1,3-Dichloropropene	50.000	46.835		6.3	92	0.00
54	T	1,1,2-Trichloroethane	50.000	47.515		5.0	88	0.00
55	T	2-Hexanone	200.000	208.121		-4.1	93	0.00
56	T	1,3-Dichloropropane	50.000	48.769		2.5	89	-0.02

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57	T	Tetrachloroethene	50.000	48.901	2.2	93	-0.02
58	T	Dibromochloromethane	50.000	45.382	9.2	88	0.00
59	T	1,2-Dibromoethane	50.000	48.061	3.9	86	0.00
60	T	1-Chlorohexane	50.000	51.752	-3.5	93	0.00
61	P	Chlorobenzene	50.000	47.817	4.4	91	0.00
62	T	1,1,1,2-Tetrachloroethane	50.000	50.746	-1.5	90	0.00
63	C,T	Ethylbenzene	50.000	49.788	0.4	93	0.00
64	T	m-Xylene & p-Xylene	100.000	102.884	-2.9	94	0.00
65	T	o-Xylene	50.000	50.839	-1.7	92	-0.02
66	T	Styrene	50.000	48.998	2.0	89	-0.02
67	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	99	0.00
68	P,T	Bromoform	50.000	41.344	17.3	82	0.00
69	T	Isopropylbenzene	50.000	56.948	-13.9	103	0.00
70	P,T	1,1,2,2-Tetrachloroethane	50.000	46.984	6.0	87	-0.02
71	S	4-Bromofluorobenzene	50.000	55.270	-10.5	121	-0.02
72	T	1,2,3-Trichloropropane	50.000	43.531	12.9	86	-0.02
73	T	trans-1,4-Dichloro-2-butene	50.000	61.376	-22.8#	121	-0.02
74	T	n-Propylbenzene	50.000	51.563	-3.1	93	0.00
75	T	Bromobenzene	50.000	50.134	-0.3	92	0.00
76	T	2-Chlorotoluene	50.000	45.854	8.3	90	-0.02
77	T	1,3,5-Trimethylbenzene	50.000	52.283	-4.6	94	0.00
78	T	4-Chlorotoluene	50.000	50.893	-1.8	94	0.00
79	T	tert-Butylbenzene	50.000	51.701	-3.4	94	-0.02
80	T	1,2,4-Trimethylbenzene	50.000	50.541	-1.1	93	-0.02
81	T	sec-Butylbenzene	50.000	49.294	1.4	90	0.00
82	T	p-Isopropyltoluene	50.000	54.575	-9.2	98	0.00
83	T	1,3-Dichlorobenzene	50.000	49.332	1.3	92	-0.02
84	T	1,4-Dichlorobenzene	50.000	48.449	3.1	90	0.00
85	T	n-Butylbenzene	50.000	52.183	-4.4	95	0.00
86	T	1,2-Dichlorobenzene	50.000	48.528	2.9	92	0.00
87	T	1,2-Dibromo-3-chloropropane	50.000	42.348	15.3	84	0.00
88	T	1,2,4-Trichlorobenzene	50.000	49.403	1.2	94	0.00
89	T	Hexachlorobutadiene	50.000	48.272	3.5	94	0.00
90	T	Naphthalene	50.000	50.149	-0.3	90	0.00
91	T	1,2,3-Trichlorobenzene	50.000	49.601	0.8	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

RBB058.D VO03B03.M Mon Feb 06 19:27:45 2006

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Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06B03\RBB065.D Vial: 13
Acq On : 3 Feb 2006 8:30 pm Operator: CGM
Sample : IVO03B031 50/200/250 Inst : TO03
Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	103	0.00
2	T	Dichlorodifluoromethane	0.465	0.415	10.8	93	-0.02
3	P,T	Chloromethane	0.581	0.508	12.6	98	0.00
4	C,T	Vinyl chloride	0.352	0.297	15.6	97	0.00
5	T	Bromomethane	0.269	0.243	9.7	92	0.00
6	T	Chloroethane	0.221	0.207	6.3	97	0.00
7	T	Trichlorofluoromethane	0.502	0.479	4.6	101	0.00
8	T	sec-Propyl alcohol	0.000	0.000	0.0	110	0.00
9	T	Acrolein	0.042	0.055	-31.0#	123	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	0.245	0.231	5.7	93	0.00
11	T	Acetone	0.155	0.147	5.2	98	0.00
12	C,T	1,1-Dichloroethene	0.757	0.700	7.5	95	0.00
13	T	tert-Butyl alcohol	0.027	0.029	-7.4	94	0.00
14	T	Acetonitrile	0.000	0.000	0.0	93	0.00
15	T	Iodomethane	0.314	0.392	-24.8#	120	0.00
17	T	Methylene chloride	0.829	0.729	12.1	96	0.00
18	T	Carbon disulfide	1.076	1.173	-9.0	105	0.00
19	T	Acrylonitrile	0.125	0.122	2.4	94	0.00
20	T	tert-Butyl methyl ether (MT	0.686	0.704	-2.6	94	0.00
21	T	trans-1,2-Dichloroethene	0.727	0.711	2.2	96	0.00
22	T	Isopropyl ether (DIPE)	1.596	1.688	-5.8	101	0.00
23	P,T	1,1-Dichloroethane	0.794	0.785	1.1	97	0.00
24	T	Vinyl acetate	0.851	0.874	-2.7	94	0.00
25	T	tert-Butyl ethyl ether (ETB	0.951	1.028	-8.1	99	0.00
26	T	2-Butanone	0.209	0.210	-0.5	95	0.00
27	T	2,2-Dichloropropane	0.345	0.376	-9.0	97	0.00
28	T	cis-1,2-Dichloroethene	0.772	0.755	2.2	96	0.00
29	T	tert-Butyl formate (TBF)	0.000	0.000	0.0	95	-0.02
30	C,T	Chloroform	0.736	0.720	2.2	97	0.00
31	T	Bromochloromethane	0.449	0.417	7.1	92	0.00
32	T	Tetrahydrofuran	0.125	0.121	3.2	93	0.00
33	T	1,1,1-Trichloroethane	0.549	0.549	0.0	94	0.00
35	T	tert-Amyl methyl ether (TAM	0.722	0.726	-0.6	93	0.00
36	S	1,2-Dichloroethane-d4	0.515	0.526	-2.1	119	0.00
37	I	CHLOROBENZENE-D5	1.000	1.000	0.0	100	0.00
38	T	1,1-Dichloropropene	0.205	0.203	1.0	92	0.00
39	T	Carbon tetrachloride	0.466	0.467	-0.2	92	0.00
40	T	1,2-Dichloroethane	0.752	0.722	4.0	93	0.00
41	T	Benzene	1.494	1.517	-1.5	96	0.00
42	T	Trichloroethene	0.390	0.379	2.8	93	0.00
44	C,T	1,2-Dichloropropane	0.478	0.480	-0.4	96	0.00
45	T	Bromodichloromethane	0.558	0.552	1.1	89	0.00
46	T	Dibromomethane	0.274	0.266	2.9	90	0.00
47	T	2-Chloroethyl vinyl ether	0.189	0.203	-7.4	101	0.00
48	T	4-Methyl-2-pentanone	0.530	0.552	-4.2	93	0.00
49	T	cis-1,3-Dichloropropene	0.576	0.564	2.1	88	0.00
50	S	Toluene-d8	1.131	1.256	-11.1	120	-0.02
51	C,T	Toluene	1.458	1.456	0.1	94	0.00
52	T	Ethyl methacrylate	0.471	0.473	-0.4	91	0.00
53	T	trans-1,3-Dichloropropene	0.434	0.453	-4.4	92	0.00
54	T	1,1,2-Trichloroethane	0.313	0.297	5.1	88	0.00
55	T	2-Hexanone	0.353	0.367	-4.0	93	0.00
56	T	1,3-Dichloropropane	0.586	0.572	2.4	89	-0.02

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57	T	Tetrachloroethene	0.335	0.328	2.1	93	-0.02
58	T	Dibromochloromethane	0.338	0.332	1.8	88	0.00
59	T	1,2-Dibromoethane	0.294	0.282	4.1	86	0.00
60	T	1-Chlorohexane	0.524	0.542	-3.4	93	0.00
61	P	Chlorobenzene	0.961	0.919	4.4	91	0.00
62	T	1,1,1,2-Tetrachloroethane	0.314	0.319	-1.6	90	0.00
63	C,T	Ethylbenzene	1.711	1.704	0.4	93	0.00
64	T	m-Xylene & p-Xylene	1.406	1.447	-2.9	94	0.00
65	T	o-Xylene	1.456	1.480	-1.6	92	-0.02
66	T	Styrene	0.999	0.979	2.0	89	-0.02
67	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	99	0.00
68	P,T	Bromoform	0.428	0.397	7.2	82	0.00
69	T	Isopropylbenzene	2.804	3.194	-13.9	103	0.00
70	P,T	1,1,2,2-Tetrachloroethane	0.850	0.799	6.0	87	-0.02
71	S	4-Bromofluorobenzene	1.129	1.249	-10.6	121	-0.02
72	T	1,2,3-Trichloropropane	0.229	0.199	13.1	86	-0.02
73	T	trans-1,4-Dichloro-2-butene	0.127	0.175	-37.8#	121	-0.02
74	T	n-Propylbenzene	4.073	4.200	-3.1	93	0.00
75	T	Bromobenzene	0.837	0.839	-0.2	92	0.00
76	T	2-Chlorotoluene	2.553	2.341	8.3	90	-0.02
77	T	1,3,5-Trimethylbenzene	2.715	2.839	-4.6	94	0.00
78	T	4-Chlorotoluene	2.816	2.867	-1.8	94	0.00
79	T	tert-Butylbenzene	2.187	2.261	-3.4	94	-0.02
80	T	1,2,4-Trimethylbenzene	2.770	2.800	-1.1	93	-0.02
81	T	sec-Butylbenzene	3.498	3.449	1.4	90	0.00
82	T	p-Isopropyltoluene	2.540	2.772	-9.1	98	0.00
83	T	1,3-Dichlorobenzene	1.521	1.501	1.3	92	-0.02
84	T	1,4-Dichlorobenzene	1.542	1.494	3.1	90	0.00
85	T	n-Butylbenzene	2.955	3.084	-4.4	95	0.00
86	T	1,2-Dichlorobenzene	1.469	1.425	3.0	92	0.00
87	T	1,2-Dibromo-3-chloropropane	0.137	0.129	5.8	84	0.00
88	T	1,2,4-Trichlorobenzene	1.175	1.161	1.2	94	0.00
89	T	Hexachlorobutadiene	0.965	0.932	3.4	94	0.00
90	T	Naphthalene	1.974	1.980	-0.3	90	0.00
91	T	1,2,3-Trichlorobenzene	1.066	1.057	0.8	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

RBB058.D VO03B03.M Mon Feb 06 19:28:15 2006

2-9-06

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\06B03\RBB065.D Vial: 13
Acq On : 3 Feb 2006 8:30 pm Operator: CGM
Sample : IVO03B031 50/200/250 Inst : TO03
Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 6 13:19 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.15	114	2420063	50.00	ug/l	0.00
37) CHLOROBENZENE-D5	17.06	117	2191990	50.00	ug/l	0.00
67) 1,2-DICHLOROBENZENE-D4	24.31	152	1112308	50.00	ug/l	0.00
System Monitoring Compounds						
36) 1,2-Dichloroethane-d4	10.54	65	1273535	51.09	ug/l	0.00
Spiked Amount 50.000			Recovery = 102.18%			
50) Toluene-d8	13.87	98	2753464	55.53	ug/l	-0.02
Spiked Amount 50.000			Recovery = 111.06%			
71) 4-Bromofluorobenzene	20.08	95	1388748	55.27	ug/l	-0.02
Spiked Amount 50.000			Recovery = 110.54%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.38	85	1004022	44.63	ug/l	99
3) Chloromethane	3.81	50	1228304	43.65	ug/l	99
4) Vinyl chloride	4.00	62	717859	41.30	ug/l	99
5) Bromomethane	4.76	94	587918	45.23	ug/l	99
6) Chloroethane	4.89	64	500911	46.75	ug/l	97
7) Trichlorofluoromethane	5.32	101	1158221	47.71	ug/l	99
9) Acrolein	5.98	56	529145	261.51	ug/l	97
10) 1,1,2-Trichloro-1,2,2-trif	6.02	151	557893	47.14	ug/l	99
11) Acetone	6.08	43	1427712	190.68	ug/l	99
12) 1,1-Dichloroethene	6.31	61	1693111	46.20	ug/l	99
13) tert-Butyl alcohol	6.44	59	346568	261.61	ug/l	98
15) Iodomethane	6.81	142	948089	62.36	ug/l	99
16) Methyl acetate	6.80	43	113737	6.05	ug/l	99
17) Methylene chloride	7.05	49	1763056	48.32	ug/l	100
18) Carbon disulfide	7.12	76	2838558	54.52	ug/l	100
19) Acrylonitrile	7.21	53	1185298	195.62	ug/l	99
20) tert-Butyl methyl ether (M	7.30	73	1702902	45.93	ug/l	99
21) trans-1,2-Dichloroethene	7.52	61	1719814	48.90	ug/l	99
22) Isopropyl ether (DIPE)	7.98	45	4084159	52.87	ug/l	99
23) 1,1-Dichloroethane	8.18	63	1899543	49.45	ug/l	99
24) Vinyl acetate	8.13	43	2114667	51.35	ug/l	99
25) tert-Butyl ethyl ether (ET	8.62	59	2486947	48.74	ug/l	99
26) 2-Butanone	8.80	43	2037594	201.43	ug/l	100
27) 2,2-Dichloropropane	9.07	77	910827	54.52	ug/l	98
28) cis-1,2-Dichloroethene	9.14	61	1828137	48.94	ug/l	99
30) Chloroform	9.40	83	1743029	48.96	ug/l	99
31) Bromochloromethane	9.66	49	1008139	46.36	ug/l	99
32) Tetrahydrofuran	9.74	42	587977	97.52	ug/l	100
33) 1,1,1-Trichloroethane	10.05	97	1328403	50.01	ug/l	99
35) tert-Amyl methyl ether (TA	10.47	73	1756698	50.29	ug/l	99
38) 1,1-Dichloropropene	10.30	77	444694	49.53	ug/l	99
39) Carbon tetrachloride	10.50	119	1023701	50.15	ug/l	99
40) 1,2-Dichloroethane	10.69	62	1582982	48.00	ug/l	100
41) Benzene	10.76	78	3325660	50.79	ug/l	99
42) Trichloroethene	11.76	130	830154	48.59	ug/l	99
44) 1,2-Dichloropropane	12.04	63	1051093	50.17	ug/l	98
45) Bromodichloromethane	12.46	83	1209694	49.45	ug/l	100
46) Dibromomethane	12.56	93	583435	48.57	ug/l	100

(#) = qualifier out of range (m) = manual integration

2/9/06

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\06B03\RBB065.D Vial: 13
Acq On : 3 Feb 2006 8:30 pm Operator: CGM
Sample : IVO03B031 50/200/250 Inst : TO03
Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 6 13:19 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	2-Chloroethyl vinyl ether	12.89	63	445218	53.64	ug/l	100
48)	4-Methyl-2-pentanone	12.95	43	4836823	208.17	ug/l	99
49)	cis-1,3-Dichloropropene	13.38	75	1235270	45.87	ug/l	99
51)	Toluene	14.03	91	3191719	49.94	ug/l	99
52)	Ethyl methacrylate	14.21	69	1037826	50.30	ug/l	98
53)	trans-1,3-Dichloropropene	14.30	75	992730	46.84	ug/l	99
54)	1,1,2-Trichloroethane	14.64	97	651523	47.52	ug/l	98
55)	2-Hexanone	14.58	43	3217769	208.12	ug/l	98
56)	1,3-Dichloropropane	15.13	76	1253311	48.77	ug/l	99
57)	Tetrachloroethene	15.35	164	719117	48.90	ug/l	98
58)	Dibromochloromethane	15.77	129	727566	45.38	ug/l	99
59)	1,2-Dibromoethane	16.22	107	618683	48.06	ug/l	96
60)	1-Chlorohexane	16.47	91	1188291	51.75	ug/l	99
61)	Chlorobenzene	17.15	112	2014767	47.82	ug/l	98
62)	1,1,1,2-Tetrachloroethane	17.23	131	698721	50.75	ug/l	99
63)	Ethylbenzene	17.24	91	3734719	49.79	ug/l	100
64)	m-Xylene & p-Xylene	17.42	91	6342881	102.88	ug/l	100
65)	o-Xylene	18.49	91	3245220	50.84	ug/l	99
66)	Styrene	18.56	104	2145505	49.00	ug/l	100
68)	Bromoform	19.49	173	442030	41.34	ug/l	99
69)	Isopropylbenzene	19.40	105	3552553	56.95	ug/l	99
70)	1,1,2,2-Tetrachloroethane	19.81	83	888399	46.98	ug/l	100
72)	1,2,3-Trichloropropane	20.21	61	221884	43.53	ug/l	96
73)	trans-1,4-Dichloro-2-buten	20.36	53	194236	61.38	ug/l	96
74)	n-Propylbenzene	20.48	91	4672055	51.56	ug/l	99
75)	Bromobenzene	20.66	156	933650	50.13	ug/l	100
76)	2-Chlorotoluene	21.02	91	2603868	45.85	ug/l	99
77)	1,3,5-Trimethylbenzene	20.93	105	3157994	52.28	ug/l	99
78)	4-Chlorotoluene	21.15	91	3188604	50.89	ug/l	98
79)	tert-Butylbenzene	21.95	119	2515241	51.70	ug/l	98
80)	1,2,4-Trimethylbenzene	22.07	105	3114135	50.54	ug/l	100
81)	sec-Butylbenzene	22.61	105	3836283	49.29	ug/l	99
82)	p-Isopropyltoluene	22.99	119	3083309	54.58	ug/l	99
83)	1,3-Dichlorobenzene	23.26	146	1669201	49.33	ug/l	100
84)	1,4-Dichlorobenzene	23.53	146	1662288	48.45	ug/l	99
85)	n-Butylbenzene	23.99	91	3430354	52.18	ug/l	100
86)	1,2-Dichlorobenzene	24.37	146	1585422	48.53	ug/l	99
87)	1,2-Dibromo-3-chloropropan	25.93	157	143926	42.35	ug/l	97
88)	1,2,4-Trichlorobenzene	27.73	180	1291031	49.40	ug/l	99
89)	Hexachlorobutadiene	28.01	225	1036359	48.27	ug/l	99
90)	Naphthalene	28.28	128	2202291	50.15	ug/l	100
91)	1,2,3-Trichlorobenzene	28.80	180	1175973	49.60	ug/l	99

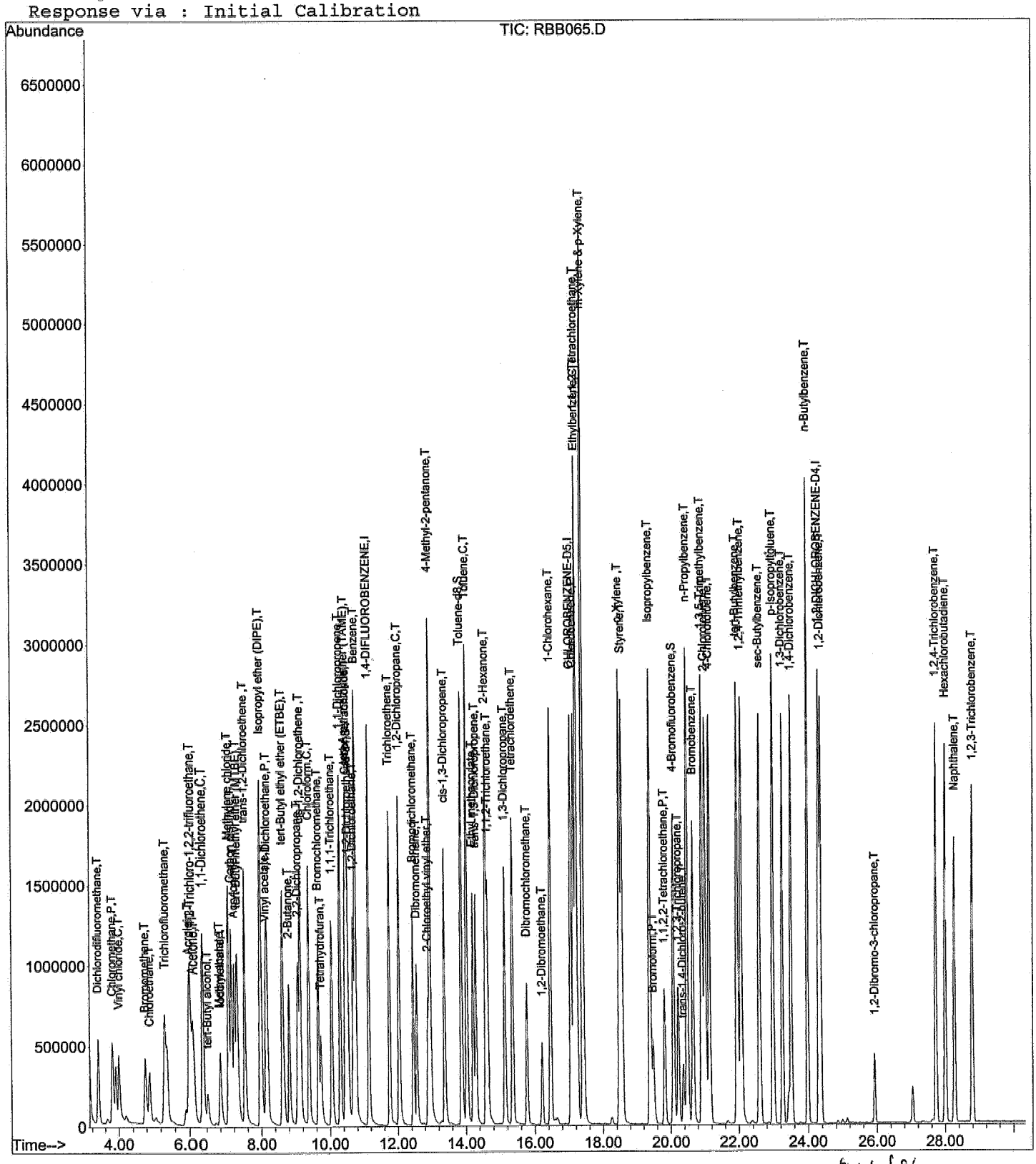
(#) = qualifier out of range (m) = manual integration

2074

Quantitation Report

Data File : D:\HPCHEM\1\DATA\06B03\RBB065.D Vial: 13
Acq On : 3 Feb 2006 8:30 pm Operator: CGM
Sample : IVO03B031 50/200/250 Inst : TO03
Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 6 13:19 2006 Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



2/9/06
2975

DAILY CALIBRATIONS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RCB297
Instrument ID: T-003
GC Column:RTX502.2ID:0.32mm (mm)

Contract: UPGRADIENT INVESTIGATION, TRONOX
SAS No.: SDG No.: 06C119
BFB Injection Date : 03/17/06
BFB Injection Time : 16:52
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.78
75	30.0 - 60.0% of mass 95	54.13
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	7.35
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	69.92
175	5.0 - 9.0% of mass 174	5.49(7.8)1
176	95.0 - 101.0% of mass 174	67.98(97.2)1
177	5.0 - 9.0% of mass 176	4.82(7.1)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD050	CV003B0384	RCB298	03/17/06	17:29
2	MBLK1W	V003C26B	RCB304	03/17/06	21:12
3	LCS1W	V003C26L	RCB302	03/17/06	19:58
4	LCD1W	V003C26C	RCB303	03/17/06	20:35
5	TR-10A	C119-01	RCB310	03/18/06	00:54
6	PUMP BLANK	C119-02	RCB311	03/18/06	01:32

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: R8B058
Instrument ID: I-003
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: UPGRADIENT INVESTIGATION, TRONOX
SDG No.: 06C119
Date Analyzed: 02/03/06
Time Analyzed: 16:09
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	2354321	11.16	2189381	17.07	1126337	24.32
	UPPER LIMIT	4708642	11.66	4378762	17.57	2252674	24.82
	LOWER LIMIT	1177161	10.66	1094691	16.57	563169	23.82
	SAMPLE ID						
1	VSTD050	2696847	11.16	2501375	17.08	1337412	24.32
2	MBLK1W	2308513	11.17	2156394	17.08	1069293	24.32
3	LCS1W	2480958	11.15	2352083	17.08	1229388	24.32
4	LCD1W	2178004	11.15	2023723	17.08	1059504	24.32
5	TR-10A	2098171	11.17	2130926	17.08	1089474	24.32
6	PUMP BLANK	2327053	11.16	2215476	17.07	1106564	24.32

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

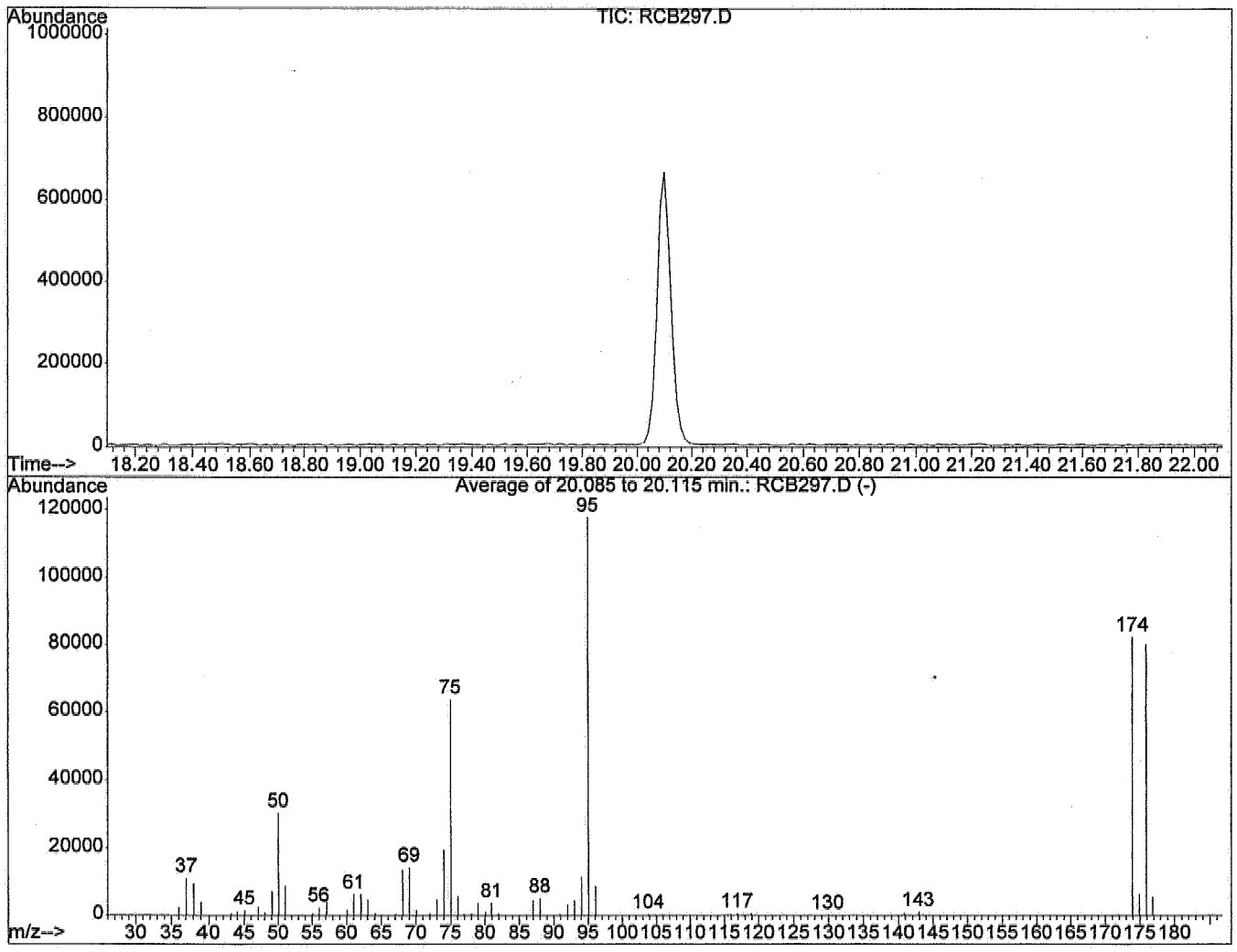
AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
AREA UPPER LIMIT = + 50% of surrogate area
AREA LOWER LIMIT = - 50% of surrogate area

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

BFB

Data File : D:\HPCHEM\1\DATA\06C17\RCB297.D
Acq On : 17 Mar 2006 4:52 pm
Sample : BFB03C25
Misc : T/CHECK
MS Integration Params: 524INT.P
Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260

Vial: 1
Operator: CGM
Inst : TO03
Multiplr: 1.00



AutoFind: Scans 1142, 1143, 1144; Background Corrected with Scan 1135

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.8	30363	PASS
75	95	30	60	54.1	63755	PASS
95	95	100	100	100.0	117787	PASS
96	95	5	9	7.4	8658	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	69.9	82360	PASS
175	174	5	9	7.8	6462	PASS
176	174	95	101	97.2	80069	PASS
177	176	5	9	7.1	5679	PASS

RCB297.D VO03B03.M Mon Mar 20 17:55:17 2006

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C17\RCB298.D Vial: 2
Acq On : 17 Mar 2006 5:29 pm Operator: CGM
Sample : CVO03B0384 50/200/250 Inst : TO03
Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	50.000	50.000	0.0	115	0.00
2	T	Dichlorodifluoromethane	50.000	45.313	9.4	105	0.00
3	P,T	Chloromethane	50.000	44.530	10.9	111	0.00
4	C,T	Vinyl chloride	50.000	47.169	5.7	120	0.01
5	T	Bromomethane	50.000	49.161	1.7	112	0.00
6	T	Chloroethane	50.000	56.810	-13.6	131	0.00
7	T	Trichlorofluoromethane	50.000	56.521	-13.0	134	0.00
8	T	sec-Propyl alcohol	-1.000	0.000	0.0	58	0.00
9	T	Acrolein	200.000	227.587	-13.8	119	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	50.000	51.234	-2.5	113	0.00
11	T	Acetone	200.000	190.811	4.6	109	0.00
12	C,T	1,1-Dichloroethene	50.000	46.834	6.3	107	0.00
13	T	tert-Butyl alcohol	250.000	246.074	1.6	98	0.00
14	T	Acetonitrile	-1.000	0.000	0.0	134	0.00
15	T	Iodomethane	50.000	43.336	13.3	93	0.00
16	T	Methyl acetate	50.000	3.108	NT 93.8#	7	0.00
17	T	Methylene chloride	50.000	49.084	1.8	108	0.00
18	T	Carbon disulfide	50.000	44.325	11.3	96	0.00
19	T	Acrylonitrile	200.000	188.598	5.7	102	0.00
20	T	tert-Butyl methyl ether (MT	50.000	49.124	1.8	112	0.00
21	T	trans-1,2-Dichloroethene	50.000	49.757	0.5	109	0.00
22	T	Isopropyl ether (DIPE)	50.000	51.748	-3.5	110	0.00
23	P,T	1,1-Dichloroethane	50.000	50.432	-0.9	110	0.00
24	T	Vinyl acetate	50.000	56.258	-12.5	115	0.00
25	T	tert-Butyl ethyl ether (ETB	50.000	52.374	-4.7	119	0.00
26	T	2-Butanone	200.000	194.339	2.8	102	0.00
27	T	2,2-Dichloropropane	50.000	60.938	-21.9#	121	0.01
28	T	cis-1,2-Dichloroethene	50.000	51.974	-3.9	113	0.00
29	T	tert-Butyl formate (TBF)	-1.000	0.000	0.0	119	0.00
30	C,T	Chloroform	50.000	50.428	0.9	111	0.00
31	T	Bromochloromethane	50.000	47.826	4.3	106	0.00
32	T	Tetrahydrofuran	100.000	0.643	NT 99.4#	1	0.07
33	T	1,1,1-Trichloroethane	50.000	52.219	-4.4	109	0.00
34	T	Cyclohexane	50.000	0.263	NT 99.5#	1	-0.05
35	T	tert-Amyl methyl ether (TAM	50.000	54.613	-9.2	113	0.00
36	S	1,2-Dichloroethane-d4	50.000	51.697	-3.4	134	0.00
37	I	CHLOROBENZENE-D5	50.000	50.000	0.0	114	0.00
38	T	1,1-Dichloropropene	50.000	50.303	-0.6	107	0.00
39	T	Carbon tetrachloride	50.000	53.685	-7.4	112	0.00
40	T	1,2-Dichloroethane	50.000	50.133	-0.3	111	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C17\RCB298.D Vial: 2
Acq On : 17 Mar 2006 5:29 pm Operator: CGM
Sample : CVO03B0384 50/200/250 Inst : TO03
Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Benzene	50.000	50.270	-0.5	108	0.00
42	T	Trichloroethene	50.000	50.696	-1.4	110	0.00
43	T	Methylcyclohexane	50.000	0.503	99.0#	1	-0.14
44	C,T	1,2-Dichloropropane	50.000	49.841	0.3	108	0.00
45	T	Bromodichloromethane	50.000	52.681	-5.4	108	0.00
46	T	Dibromomethane	50.000	50.536	-1.1	107	0.00
47	T	2-Chloroethyl vinyl ether	50.000	52.602	-5.2	114	0.01
48	T	4-Methyl-2-pentanone	200.000	202.336	-1.2	103	0.00
49	T	cis-1,3-Dichloropropene	50.000	50.650	-1.3	112	0.00
50	S	Toluene-d8	50.000	51.285	-2.6	127	0.00
51	C,T	Toluene	50.000	50.618	-1.2	109	0.00
52	T	Ethyl methacrylate	50.000	50.454	-0.9	105	0.00
53	T	trans-1,3-Dichloropropene	50.000	49.049	1.9	110	0.00
54	T	1,1,2-Trichloroethane	50.000	50.283	-0.6	107	0.00
55	T	2-Hexanone	200.000	201.078	-0.5	103	0.00
56	T	1,3-Dichloropropane	50.000	51.802	-3.6	108	0.00
57	T	Tetrachloroethene	50.000	50.853	-1.7	110	0.00
58	T	Dibromochloromethane	50.000	48.932	2.1	109	0.00
59	T	1,2-Dibromoethane	50.000	53.807	-7.6	110	0.00
60	T	1-Chlorohexane	50.000	53.838	-7.7	110	0.00
61	P	Chlorobenzene	50.000	50.916	-1.8	111	0.00
62	T	1,1,1,2-Tetrachloroethane	50.000	54.520	-9.0	110	0.00
63	C,T	Ethylbenzene	50.000	52.060	-4.1	110	0.00
64	T	m-Xylene & p-Xylene	100.000	104.287	-4.3	109	0.00
65	T	o-Xylene	50.000	52.122	-4.2	108	0.00
66	T	Styrene	50.000	52.928	-5.9	109	0.00
67	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	119	0.00
68	P,T	Bromoform	50.000	43.470	13.1	104	0.00
69	T	Isopropylbenzene	50.000	50.856	-1.7	110	0.00
70	P,T	1,1,2,2-Tetrachloroethane	50.000	49.274	1.5	109	0.00
71	S	4-Bromofluorobenzene	50.000	52.081	-4.2	137	0.00
72	T	1,2,3-Trichloropropane	50.000	47.945	4.1	114	0.00
73	T	trans-1,4-Dichloro-2-butene	50.000	55.202	-10.4	131	0.00
74	T	n-Propylbenzene	50.000	50.543	-1.1	110	0.00
75	T	Bromobenzene	50.000	49.821	0.4	110	0.00
76	T	2-Chlorotoluene	50.000	45.342	9.3	107	0.00
77	T	1,3,5-Trimethylbenzene	50.000	51.154	-2.3	111	0.00
78	T	4-Chlorotoluene	50.000	49.636	0.7	111	0.00
79	T	tert-Butylbenzene	50.000	50.999	-2.0	112	0.00
80	T	1,2,4-Trimethylbenzene	50.000	49.846	0.3	110	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C17\RCB298.D Vial: 2
Acq On : 17 Mar 2006 5:29 pm Operator: CGM
Sample : CVO03B0384 50/200/250 Inst : TO03
Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	sec-Butylbenzene	50.000	50.674	-1.3	111	0.00
82	T	p-Isopropyltoluene	50.000	52.138	-4.3	112	0.00
83	T	1,3-Dichlorobenzene	50.000	49.959	0.1	112	0.00
84	T	1,4-Dichlorobenzene	50.000	50.456	-0.9	112	0.00
85	T	n-Butylbenzene	50.000	51.763	-3.5	113	0.00
86	T	1,2-Dichlorobenzene	50.000	48.718	2.6	111	0.00
87	T	1,2-Dibromo-3-chloropropane	50.000	42.663	14.7	102	0.01
88	T	1,2,4-Trichlorobenzene	50.000	52.488	-5.0	120	0.00
89	T	Hexachlorobutadiene	50.000	50.985	-2.0	119	0.00
90	T	Naphthalene	50.000	50.977	-2.0	110	0.00
91	T	1,2,3-Trichlorobenzene	50.000	51.527	-3.1	117	0.00

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C17\RCB298.D Vial: 2
Acq On : 17 Mar 2006 5:29 pm Operator: CGM
Sample : CVO03B0384 50/200/250 Inst : TO03
Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	115	0.00
2	T	Dichlorodifluoromethane	0.465	0.421	9.5	105	0.00
3	P,T	Chloromethane	0.581	0.518	10.8	111	0.00
4	C,T	Vinyl chloride	0.352	0.329	6.5	120	0.01
5	T	Bromomethane	0.269	0.264	1.9	112	0.00
6	T	Chloroethane	0.221	0.252	-14.0	131	0.00
7	T	Trichlorofluoromethane	0.502	0.567	-12.9	134	0.00
8	T	sec-Propyl alcohol	0.000	0.000	0.0	58	0.00
9	T	Acrolein	0.042	0.048	-14.3	119	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	0.245	0.251	-2.4	113	0.00
11	T	Acetone	0.155	0.148	4.5	109	0.00
12	C,T	1,1-Dichloroethene	0.757	0.709	6.3	107	0.00
13	T	tert-Butyl alcohol	0.027	0.027	0.0	98	0.00
14	T	Acetonitrile	0.000	0.000	0.0	134	0.00
15	T	Iodomethane	0.314	0.272	13.4	93	0.00
16	T	Methyl acetate	0.388	0.024	93.8#	7#	0.00
17	T	Methylene chloride	0.829	0.739	10.9	108	0.00
18	T	Carbon disulfide	1.076	0.954	11.3	96	0.00
19	T	Acrylonitrile	0.125	0.118	5.6	102	0.00
20	T	tert-Butyl methyl ether (MT	0.686	0.754	-9.9	112	0.00
21	T	trans-1,2-Dichloroethene	0.727	0.723	0.6	109	0.00
22	T	Isopropyl ether (DIPE)	1.596	1.652	-3.5	110	0.00
23	P,T	1,1-Dichloroethane	0.794	0.801	-0.9	110	0.00
24	T	Vinyl acetate	0.851	0.957	-12.5	115	0.00
25	T	tert-Butyl ethyl ether (ETB	0.951	1.106	-16.3	119	0.00
26	T	2-Butanone	0.209	0.203	2.9	102	0.00
27	T	2,2-Dichloropropane	0.345	0.421	-22.0#	121	0.01
28	T	cis-1,2-Dichloroethene	0.772	0.802	-3.9	113	0.00
29	T	tert-Butyl formate (TBF)	0.000	0.000	0.0	119	0.00
30	C,T	Chloroform	0.736	0.742	-0.8	111	0.00
31	T	Bromochloromethane	0.449	0.430	4.2	106	0.00
32	T	Tetrahydrofuran	0.125	0.001	99.2#	1#	0.07
33	T	1,1,1-Trichloroethane	0.549	0.573	-4.4	109	0.00
34	T	Cyclohexane	0.740	0.004	99.5#	1#	-0.05
35	T	tert-Amyl methyl ether (TAM	0.722	0.788	-9.1	113	0.00
36	S	1,2-Dichloroethane-d4	0.515	0.532	-3.3	134	0.00
37	I	CHLOROBENZENE-D5	1.000	1.000	0.0	114	0.00
38	T	1,1-Dichloropropene	0.205	0.206	-0.5	107	0.00
39	T	Carbon tetrachloride	0.466	0.500	-7.3	112	0.00
40	T	1,2-Dichloroethane	0.752	0.754	-0.3	111	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C17\RCB298.D Vial: 2
Acq On : 17 Mar 2006 5:29 pm Operator: CGM
Sample : CVO03B0384 50/200/250 Inst : TO03
Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Benzene	1.494	1.502	-0.5	108	0.00
42	T	Trichloroethene	0.390	0.395	-1.3	110	0.00
43	T	Methylcyclohexane	0.642	0.006	99.1#	1#	-0.14
44	C,T	1,2-Dichloropropane	0.478	0.476	0.4	108	0.00
45	T	Bromodichloromethane	0.558	0.588	-5.4	108	0.00
46	T	Dibromomethane	0.274	0.277	-1.1	107	0.00
47	T	2-Chloroethyl vinyl ether	0.189	0.199	-5.3	114	0.01
48	T	4-Methyl-2-pentanone	0.530	0.536	-1.1	103	0.00
49	T	cis-1,3-Dichloropropene	0.576	0.625	-8.5	112	0.00
50	S	Toluene-d8	1.131	1.160	-2.6	127	0.00
51	C,T	Toluene	1.458	1.476	-1.2	109	0.00
52	T	Ethyl methacrylate	0.471	0.475	-0.8	105	0.00
53	T	trans-1,3-Dichloropropene	0.434	0.476	-9.7	110	0.00
54	T	1,1,2-Trichloroethane	0.313	0.315	-0.6	107	0.00
55	T	2-Hexanone	0.353	0.355	-0.6	103	0.00
56	T	1,3-Dichloropropane	0.586	0.607	-3.6	108	0.00
57	T	Tetrachloroethene	0.335	0.341	-1.8	110	0.00
58	T	Dibromochloromethane	0.338	0.359	-6.2	109	0.00
59	T	1,2-Dibromoethane	0.294	0.316	-7.5	110	0.00
60	T	1-Chlorohexane	0.524	0.564	-7.6	110	0.00
61	P	Chlorobenzene	0.961	0.979	-1.9	111	0.00
62	T	1,1,1,2-Tetrachloroethane	0.314	0.342	-8.9	110	0.00
63	C,T	Ethylbenzene	1.711	1.782	-4.1	110	0.00
64	T	m-Xylene & p-Xylene	1.406	1.467	-4.3	109	0.00
65	T	o-Xylene	1.456	1.518	-4.3	108	0.00
66	T	Styrene	0.999	1.057	-5.8	109	0.00
67	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	119	0.00
68	P,T	Bromoform	0.428	0.420	1.9	104	0.00
69	T	Isopropylbenzene	2.804	2.852	-1.7	110	0.00
70	P,T	1,1,2,2-Tetrachloroethane	0.850	0.838	1.4	109	0.00
71	S	4-Bromofluorobenzene	1.129	1.176	-4.2	137	0.00
72	T	1,2,3-Trichloropropane	0.229	0.220	3.9	114	0.00
73	T	trans-1,4-Dichloro-2-butene	0.127	0.156	-22.8#	131	0.00
74	T	n-Propylbenzene	4.073	4.117	-1.1	110	0.00
75	T	Bromobenzene	0.837	0.834	0.4	110	0.00
76	T	2-Chlorotoluene	2.553	2.315	9.3	107	0.00
77	T	1,3,5-Trimethylbenzene	2.715	2.778	-2.3	111	0.00
78	T	4-Chlorotoluene	2.816	2.796	0.7	111	0.00
79	T	tert-Butylbenzene	2.187	2.231	-2.0	112	0.00
80	T	1,2,4-Trimethylbenzene	2.770	2.761	0.3	110	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C17\RCB298.D Vial: 2
Acq On : 17 Mar 2006 5:29 pm Operator: CGM
Sample : CVO03B0384 50/200/250 Inst : TO03
Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	sec-Butylbenzene	3.498	3.545	-1.3	111	0.00
82	T	p-Isopropyltoluene	2.540	2.648	-4.3	112	0.00
83	T	1,3-Dichlorobenzene	1.521	1.520	0.1	112	0.00
84	T	1,4-Dichlorobenzene	1.542	1.556	-0.9	112	0.00
85	T	n-Butylbenzene	2.955	3.059	-3.5	113	0.00
86	T	1,2-Dichlorobenzene	1.469	1.431	2.6	111	0.00
87	T	1,2-Dibromo-3-chloropropane	0.137	0.130	5.1	102	0.01
88	T	1,2,4-Trichlorobenzene	1.175	1.233	-4.9	120	0.00
89	T	Hexachlorobutadiene	0.965	0.984	-2.0	119	0.00
90	T	Naphthalene	1.974	2.013	-2.0	110	0.00
91	T	1,2,3-Trichlorobenzene	1.066	1.098	-3.0	117	0.00

Quantitation Report (Not Reviewed)

Data File : d:\HPCHEM\1\DATA\06C17\RCB298.D Vial: 2
Acq On : 17 Mar 2006 5:29 pm Operator: CGM
Sample : CVO03B0384 50/200/250 Inst : TO03
Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Mar 17 18:00 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.16	114	2696847	50.00	ug/l	0.00
37) CHLOROBENZENE-D5	17.08	117	2501375	50.00	ug/l	0.00
67) 1,2-DICHLOROBENZENE-D4	24.32	152	1337412	50.00	ug/l	0.00
System Monitoring Compounds						
36) 1,2-Dichloroethane-d4	10.54	65	1435951	51.70	ug/l	0.00
Spiked Amount 50.000			Recovery =	103.40%		
50) Toluene-d8	13.88	98	2901812	51.29	ug/l	0.00
Spiked Amount 50.000			Recovery =	102.58%		
71) 4-Bromofluorobenzene	20.10	95	1573451	52.08	ug/l	0.00
Spiked Amount 50.000			Recovery =	104.16%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.39	85	1135895	45.31	ug/l	98
3) Chloromethane	3.82	50	1396421	44.53	ug/l	97
4) Vinyl chloride	4.02	62	888164	47.17	ug/l	100
5) Bromomethane	4.78	94	712034	49.16	ug/l	97
6) Chloroethane	4.89	64	678260	56.81	ug/l	97
7) Trichlorofluoromethane	5.33	101	1528910	56.52	ug/l	99
9) Acrolein	5.99	56	513165	227.59	ug/l	98
10) 1,1,2-Trichloro-1,2,2-trif	6.02	151	675681	51.23	ug/l	97
11) Acetone	6.10	43	1592092	190.81	ug/l	98
12) 1,1-Dichloroethene	6.31	61	1912634	46.83	ug/l	100
13) tert-Butyl alcohol	6.44	59	363271	246.07	ug/l	81
15) Iodomethane	6.81	142	734181	43.34	ug/l	99
16) Methyl acetate	6.80	43	65063	3.11	ug/l	94
17) Methylene chloride	7.05	49	1993866	49.08	ug/l	99
18) Carbon disulfide	7.14	76	2571515	44.33	ug/l	100
19) Acrylonitrile	7.21	53	1273428	188.60	ug/l	98
20) tert-Butyl methyl ether (M	7.30	73	2033562	49.12	ug/l	98
21) trans-1,2-Dichloroethene	7.52	61	1950286	49.76	ug/l	99
22) Isopropyl ether (DIPE)	7.98	45	4454547	51.75	ug/l	99
23) 1,1-Dichloroethane	8.18	63	2159014	50.43	ug/l	99
24) Vinyl acetate	8.13	43	2581926	56.26	ug/l	100
25) tert-Butyl ethyl ether (ET	8.62	59	2982994	52.37	ug/l	98
26) 2-Butanone	8.82	43	2190653	194.34	ug/l	100
27) 2,2-Dichloropropane	9.08	77	1134479	60.94	ug/l	93
28) cis-1,2-Dichloroethene	9.14	61	2163477	51.97	ug/l	99
30) Chloroform	9.40	83	2000507	50.43	ug/l	100
31) Bromochloromethane	9.66	49	1158972	47.83	ug/l	98
32) Tetrahydrofuran	9.81	42	4319	0.64	ug/l #	46
33) 1,1,1-Trichloroethane	10.07	97	1545651	52.22	ug/l	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : d:\HPCHEM\1\DATA\06C17\RCB298.D Vial: 2
Acq On : 17 Mar 2006 5:29 pm Operator: CGM
Sample : CVO03B0384 50/200/250 Inst : TO03
Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Mar 17 18:00 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
35)	tert-Amyl methyl ether (TA	10.47	73	2125718	54.61 ug/l		93
38)	1,1-Dichloropropene	10.32	77	515362	50.30 ug/l		96
39)	Carbon tetrachloride	10.50	119	1250601	53.69 ug/l		99
40)	1,2-Dichloroethane	10.69	62	1886549	50.13 ug/l		99
41)	Benzene	10.76	78	3756476	50.27 ug/l		99
42)	Trichloroethene	11.77	130	988440	50.70 ug/l		99
43)	Methylcyclohexane	11.77	83	16173	0.50 ug/l	#	1
44)	1,2-Dichloropropane	12.06	63	1191667	49.84 ug/l		97
45)	Bromodichloromethane	12.46	83	1470598	52.68 ug/l		99
46)	Dibromomethane	12.56	93	692673	50.54 ug/l		99
47)	2-Chloroethyl vinyl ether	12.90	63	498203	52.60 ug/l		98
48)	4-Methyl-2-pentanone	12.96	43	5364836	202.34 ug/l		100
49)	cis-1,3-Dichloropropene	13.38	75	1563605	50.65 ug/l		99
51)	Toluene	14.03	91	3691869	50.62 ug/l		99
52)	Ethyl methacrylate	14.23	69	1188017	50.45 ug/l		98
53)	trans-1,3-Dichloropropene	14.30	75	1190508	49.05 ug/l		95
54)	1,1,2-Trichloroethane	14.64	97	786790	50.28 ug/l		99
55)	2-Hexanone	14.60	43	3547676	201.08 ug/l		98
56)	1,3-Dichloropropane	15.15	76	1519179	51.80 ug/l		100
57)	Tetrachloroethene	15.37	164	853369	50.85 ug/l		99
58)	Dibromochloromethane	15.77	129	899022	48.93 ug/l		99
59)	1,2-Dibromoethane	16.22	107	790407	53.81 ug/l		98
60)	1-Chlorohexane	16.47	91	1410661	53.84 ug/l		98
61)	Chlorobenzene	17.17	112	2448167	50.92 ug/l		99
62)	1,1,1,2-Tetrachloroethane	17.24	131	856638	54.52 ug/l		99
63)	Ethylbenzene	17.24	91	4456360	52.06 ug/l		98
64)	m-Xylene & p-Xylene	17.42	91	7336842	104.29 ug/l		99
65)	o-Xylene	18.51	91	3796708	52.12 ug/l		99
66)	Styrene	18.58	104	2644709	52.93 ug/l		100
68)	Bromoform	19.50	173	561581	43.47 ug/l		99
69)	Isopropylbenzene	19.41	105	3814601	50.86 ug/l		99
70)	1,1,2,2-Tetrachloroethane	19.83	83	1120239	49.27 ug/l		98
72)	1,2,3-Trichloropropane	20.23	61	293836	47.94 ug/l		93
73)	trans-1,4-Dichloro-2-buten	20.38	53	209224	55.20 ug/l		96
74)	n-Propylbenzene	20.50	91	5506379	50.54 ug/l		100
75)	Bromobenzene	20.67	156	1115607	49.82 ug/l		100
76)	2-Chlorotoluene	21.03	91	3095826	45.34 ug/l		100
77)	1,3,5-Trimethylbenzene	20.94	105	3715098	51.15 ug/l		100
78)	4-Chlorotoluene	21.15	91	3739158	49.64 ug/l		99
79)	tert-Butylbenzene	21.97	119	2983216	51.00 ug/l		99
80)	1,2,4-Trimethylbenzene	22.09	105	3692808	49.85 ug/l		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : d:\HPCHEM\1\DATA\06C17\RCB298.D Vial: 2
Acq On : 17 Mar 2006 5:29 pm Operator: CGM
Sample : CVO03B0384 50/200/250 Inst : TO03
Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Mar 17 18:00 2006 Quant Results File: VO03B03.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration
DataAcq Meth : VO03B03

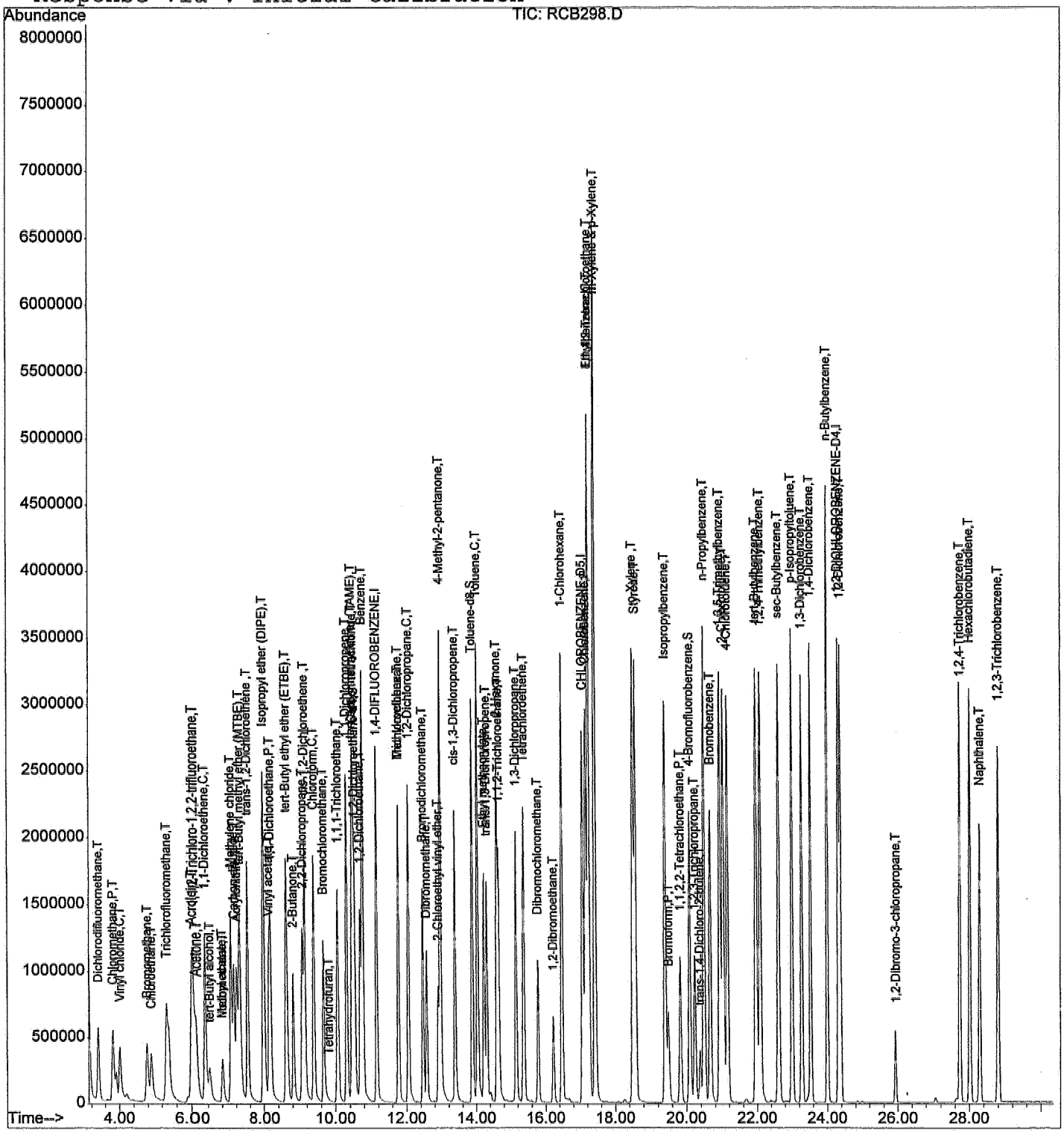
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
81)	sec-Butylbenzene	22.61	105	4741731	50.67	ug/l	100
82)	p-Isopropyltoluene	22.99	119	3541740	52.14	ug/l	100
83)	1,3-Dichlorobenzene	23.27	146	2032512	49.96	ug/l	100
84)	1,4-Dichlorobenzene	23.53	146	2081504	50.46	ug/l	100
85)	n-Butylbenzene	24.00	91	4091378	51.76	ug/l	99
86)	1,2-Dichlorobenzene	24.37	146	1913726	48.72	ug/l	100
87)	1,2-Dibromo-3-chloropropan	25.95	157	174454	42.66	ug/l	99
88)	1,2,4-Trichlorobenzene	27.75	180	1649241	52.49	ug/l	99
89)	Hexachlorobutadiene	28.02	225	1316115	50.98	ug/l	98
90)	Naphthalene	28.30	128	2691716	50.98	ug/l	100
91)	1,2,3-Trichlorobenzene	28.80	180	1468844	51.53	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : d:\HPCHEM\1\DATA\06C17\RCB298.D Vial: 2
Acq On : 17 Mar 2006 5:29 pm Operator: CGM
Sample : CVO03B0384 50/200/250 Inst : TO03
Misc : 50ppb 8260/200ppb Ket-AA/250ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Mar 17 18:00 2006 Quant Results File: VO03B03.RES

Method : D:\HPCHEM\1\METHODS\VO03B03.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 13:18:50 2006
Response via : Initial Calibration



ANALYTICAL LOG

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 2 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 3/17/06 ☑ 5-ml Purge ☐ 25-ml Purge **Book # A03 -025**

BATCH CVO03B0374

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RCB297	BFB03C25	2µL				16:52
02	298	CVO03B0384	2.5µL				
03	299	" 85	"				
04	300	CGM 3/17 VO03C25L	1.0/2.4µL	50			
05	301	" C	"	50			
06	302	VO03C26L	"	1			
07	303	" C	"	1			
08	304	VO03C26B	5mL	1			
09	305	" Q	"	1			
10	306	VO03C25B	100µL	50			
11	307	VMC004SB	100µL	50			
12	308	06C081-12	5mL	1	☑		
13	309	" 11	"	1			
14	310	06C119-01	"	1			
15	311	" 02	"	1			
16	312	06C127-09	"	1			
17	313	" 10	"	1			
18	314	Rinse					
19	315	06C101-09T	100	71		☑	3.5g/5mL
20	316	VO03C25X	1.0/2.4µL				
21	317	" Y	"				
22							
23							
24							
25							CGM 3/17/06

Instrument No.	03
INITIAL CALIBRATION REFERENCE	
DATE	2/3/06
ICAL ID	VO03B03

STANDARDS		
NAME	ID	CONC. (mg/L)
DCC	SVIC-10-22-3	
DCC	42-2	
DCC	44-1	
BFB	70-3	50/250/500
IS/SURR.	43-3	
LCS	44-3	
LCS	42-3	
LCS	44-2	

SOLVENT	ID
METHANOL	
DATA FILE	06C17

Electronic Data Archival		
Location		Date
HPCHEM_VOA/TO03	pages 16-31 CGM	3/20/06

Comments:

Analyzed By: CGM

Date Disposed:

Disposed By:

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 2 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 2/3/06 ☑ 5-ml Purge ☐ 25-ml Purge

Book # A03 -024

BATCH VOØ3B035

	Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01		RBB053	BFB03B05 ✓	2 µL				~~8260 Kat/AA TOA~~
02		054	VOØ3B031 ✓	.04/.2/.08 µL				2 8 10 ppb
03		055	2 ✓	.1/.5/.2 µL				5 20 25
04		056	3 ✓	.2/1/.4 µL				10 40 50
05		057	4 ✓	.4/2/.8 µL				20 80 100
06		058	5 ✓	1/5/2 µL				50 200 250
07		059	6 ✓	1.6/8/3.2 µL				80 320 400
08		060	7 ✓	2/10/4 µL				100 400 500
09		061	8 ✓	4/20/8 µL				200 800 1000.
10		062	9 ✓	6/30/12 µL				300 1200 1500
11		063	15/SS check					
12		064	VOØ3B05B					
13		065	VOØ3B031 ✓ *	1/5/4 µL				CGM 2/3/06
14		066	2	↓				
15		067	3 ✓	5 µL				for 3 Addn'l. Cpds. only
16		068	4	↓				↓
17		069	Rinse					
18								
19								
20								
21								
22								
23								
24								
25								CGM 2/3/06

Instrument No.	03
INITIAL CALIBRATION REFERENCE	
DATE	2/3/06
ICAL ID	VOØ3B03

STANDARDS

NAME	ID	CONC. (mg/L)
DCC	SVIC - 10 - 45 - 2 / 28 - 3	
DCC	22 - 3 / 42 - 2	
DCC	44 - 1	
BFB	20 - 3	50/200/500
IS/SURR.	48 - 3	
LCS	25 - 3 / 29 - 1	
LCS	44 - 3 / 42 - 3	
LCS	41 - 2	
SOLVENT 15	SVIC-10-45-2 ID 25ppm	
~~METHANOL~~ SS	43 - 1	
DATA FILE	06B03	

Electronic Data Archival

Location	Date
HPCHEM_VOA/TO03	

Comments:

* Not valid for Acrolein

Analyzed By: CGM

Date Disposed:

Disposed By:

LABORATORY REPORT FOR

ENSR

UPGRADIENT INVESTIGATION, TRONOX

METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

SDG#: 06C119

CASE NARRATIVE

CLIENT: ENSR

PROJECT: UPGRADIENT INVESTIGATION, TRONOX

SDG: 06C119

METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Two (2) water samples were received on 03/14/06 for Total Petroleum Hydrocarbons by purge and trap analysis by Method 5030B/8015B in accordance with SW846, 3rd edition.

1. Holding Time

Analytical holding time was met. The water samples were preserved.

2. Calibration

Initial calibration was seven points. %RSDs were within 20%. Continuing calibrations were carried out every 12 hours and at the end of the analysis sequence. All recoveries were within 85-115%.

3. Method Blank

Method blank was free of contamination at the reporting limit.

4. Surrogate Recovery

All recoveries were within QC limits.

5. Lab Control Sample/Lab Control Sample Duplicate

All recoveries were within QC limits.

6. Matrix Spike/Matrix Spike Duplicate

No sample was spiked.

7. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met. Results were quantified from C6 to C10 using GRO (C6-C10) calibration factor.

Discrete peak(s) found in sample C119-01 was not reported.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : ENSR
Project : UPGRADIENT INVESTIGATION, TRONOX

SDG NO. : 06C119
Instrument ID : GCT039

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	VA39C08B	1	NA	03/16/0614:33	03/16/0614:33	EC16003A	EC16002A	VA39C08	Method Blank
LCS1W	VA39C08L	1	NA	03/16/0615:12	03/16/0615:12	EC16004A	EC16002A	VA39C08	Lab Control Sample (LCS)
LCD1W	VA39C08C	1	NA	03/16/0615:50	03/16/0615:50	EC16005A	EC16002A	VA39C08	LCS Duplicate
TR-10A	C119-01	1	NA	03/16/0622:52	03/16/0622:52	EC16016A	EC16014A	VA39C08	Field Sample
PUMP BLANK	C119-02	1	NA	03/16/0623:30	03/16/0623:30	EC16017A	EC16014A	VA39C08	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: ENSR	Date Collected:	03/13/06
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/14/06
Batch No.	: 06C119	Date Extracted:	03/16/06 22:52
Sample ID:	TR-10A	Date Analyzed:	03/16/06 22:52
Lab Samp ID:	C119-01	Dilution Factor:	1
Lab File ID:	EC16016A	Matrix	: WATER
Ext Btch ID:	VA39C08	% Moisture	: NA
Calib. Ref.:	EC16014A	Instrument ID	: GCT039

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GRO **	ND	.1	.02

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	91	60-140

RL : Reporting Limit

Parameter	H-C Range
GRO	C6-C10

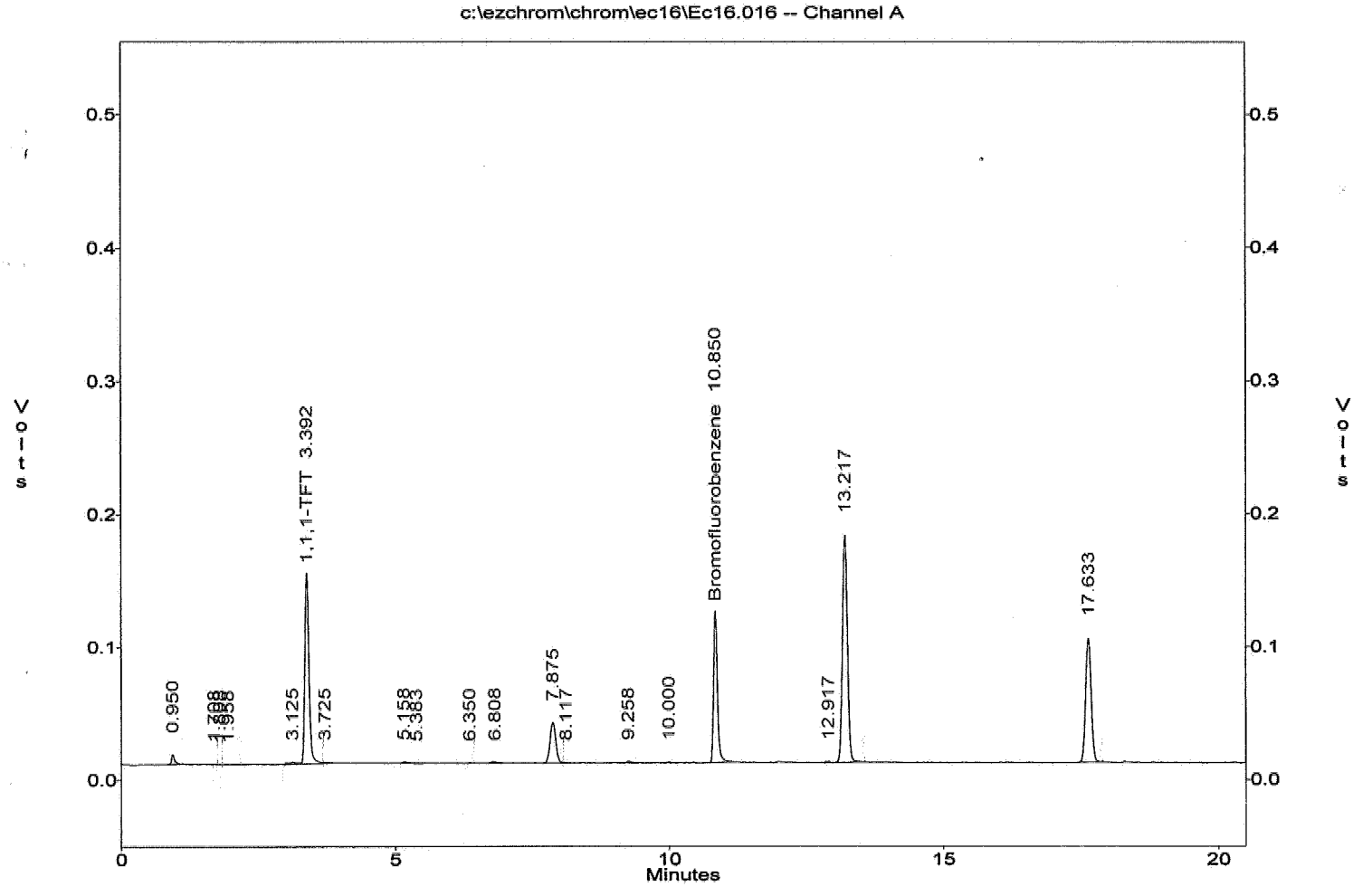
** : Discrete peak(s) was not reported

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec16\Ec16.016
Method : c:\ezchrom\methods\Vg39c03.met
Sample ID : 06C119-01 5.0ML W
Acquired : Mar 16, 2006 22:52:41
Printed : Mar 16, 2006 23:13:13
User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
6	1,1,1-TFT	3.392	760733.0	21531.8	35.33
16	Bromofluorobenzene	10.850	547482.0	15026.0	36.44
G1	GASOLINE(TOTAL)		2007412.0	15352.4	130.76
G2	GRO(C6-C10)		286163.0	12418.6	23.04
G3	GRO(2MP-124TMB)		286163.0	12455.2	22.98
G4	GRO(C5-C12)		2007412.0	15149.8	132.50



METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: ENSR	Date Collected:	03/13/06
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/14/06
Batch No.	: 06C119	Date Extracted:	03/16/06 23:30
Sample ID:	PUMP BLANK	Date Analyzed:	03/16/06 23:30
Lab Samp ID:	C119-02	Dilution Factor:	1
Lab File ID:	EC16017A	Matrix :	WATER
Ext Btch ID:	VA39C08	% Moisture :	NA
Calib. Ref.:	EC16014A	Instrument ID :	GCT039

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GRO	ND	.1	.02

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	91	60-140

RL : Reporting Limit

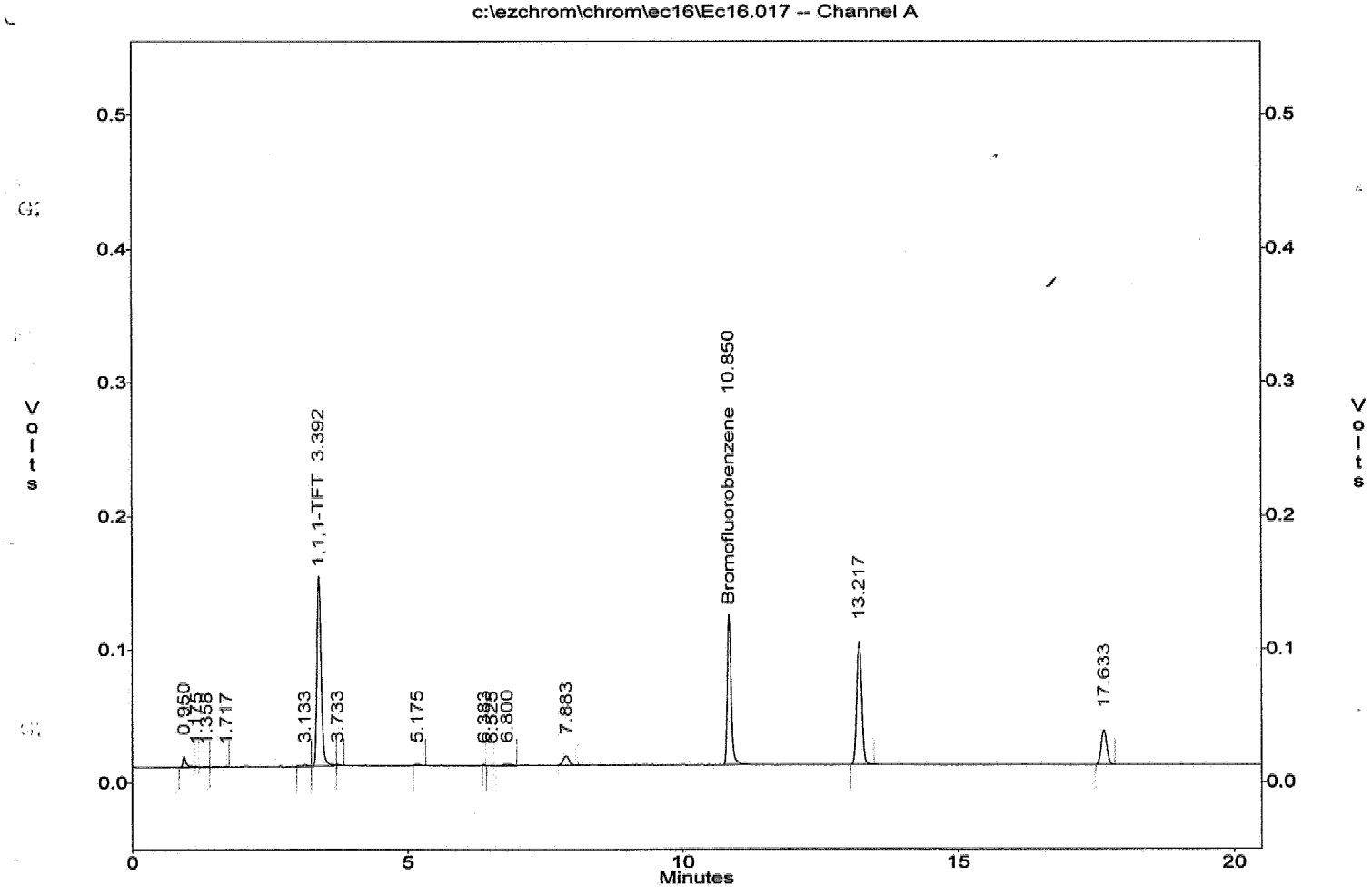
Parameter	H-C Range
GRO	C6-C10

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec16\Ec16.017
Method : c:\ezchrom\methods\Vg39c03.met
Sample ID : 06C119-02 5.0ML W
Acquired : Mar 16, 2006 23:30:55
Printed : Mar 16, 2006 23:51:27
User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
6	1,1,1-TFT	3.392	757063.0	21531.8	35.16
13	Bromofluorobenzene	10.850	546846.0	15026.0	36.39
G1	GASOLINE(TOTAL)		859423.0	15352.4	55.98
G2	GRO(C6-C10)		95328.0	12418.6	7.68
G3	GRO(2MP-124TMB)		95328.0	12455.2	7.65
G4	GRO(C5-C12)		859423.0	15149.8	56.73



QC SUMMARIES

METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: ENSR	Date Collected:	NA
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/16/06
Batch No.	: 06C119	Date Extracted:	03/16/06 14:33
Sample ID:	MBLK1W	Date Analyzed:	03/16/06 14:33
Lab Samp ID:	VA39C08B	Dilution Factor:	1
Lab File ID:	EC16003A	Matrix :	WATER
Ext Btch ID:	VA39C08	% Moisture :	NA
Calib. Ref.:	EC16002A	Instrument ID :	GCT039

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GRO	ND	.1	.02

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	95	70-130

RL : Reporting Limit

Parameter	H-C Range
GRO	C6-C10

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
BATCH NO.: 06C119
METHOD: METHOD 5030B/8015B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VA39C08B	VA39C08L	VA39C08C		
LAB FILE ID:	EC16003A	EC16004A	EC16005A		
DATE EXTRACTED:	03/16/0614:33	03/16/0615:12	03/16/0615:50	DATE COLLECTED:	NA
DATE ANALYZED:	03/16/0614:33	03/16/0615:12	03/16/0615:50	DATE RECEIVED:	03/16/06
PREP. BATCH:	VA39C08	VA39C08	VA39C08		
CALIB. REF:	EC16002A	EC16002A	EC16002A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
GRO	ND	.5	.521	104	.5	.537	107	3	60-130	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	.04	.0436	109	.04	.0438	109	70-130

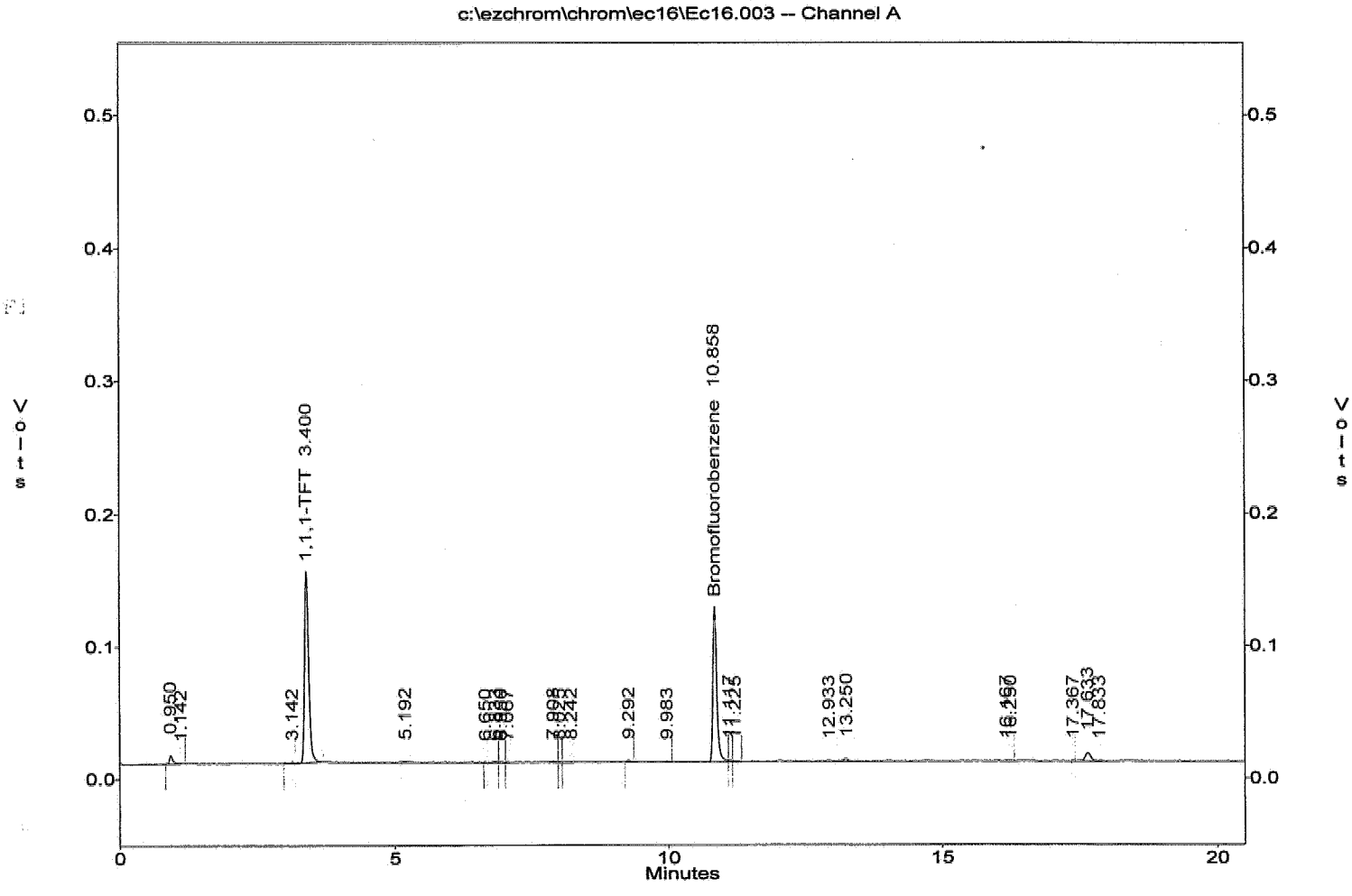
QC DATA

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec16\Ec16.003
Method : c:\ezchrom\methods\Vg39c03.met
Sample ID : VA39C08B 5.0ML W
Acquired : Mar 16, 2006 14:33:52
Printed : Mar 16, 2006 14:54:23
User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
4	1,1,1-TFT	3.400	774053.0	21531.8	35.95
15	Bromofluorobenzene	10.858	572041.0	15026.0	38.07
G1	GASOLINE(TOTAL)		128901.0	15352.4	8.40
G2	GRO(C6-C10)		59249.0	12418.6	4.77
G3	GRO(2MP-124TMB)		59249.0	12455.2	4.76
G4	GRO(C5-C12)		128901.0	15149.8	8.51

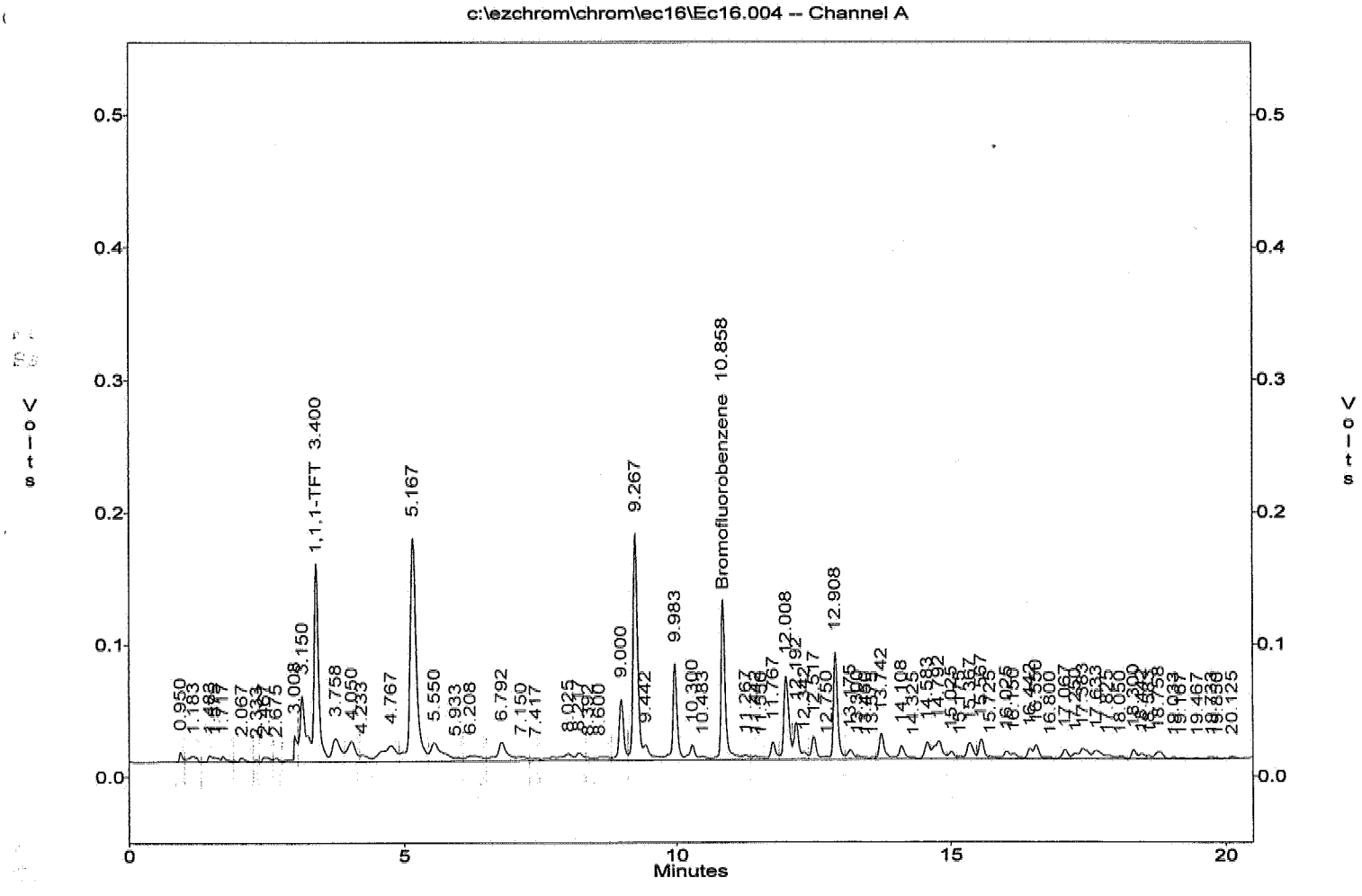


METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec16\Ec16.004
Method : c:\ezchrom\methods\Vg39c03.met
Sample ID : VA39C08L 5.0ML W
Acquired : Mar 16, 2006 15:12:22
Printed : Mar 16, 2006 15:32:54
User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
12	1,1,1-TFT	3.400	878170.0	21531.8	40.78
34	Bromofluorobenzene	10.858	655458.0	15026.0	43.62
G1	GASOLINE(TOTAL)		8001482.0	15352.4	521.19
G2	GRO(C6-C10)		6469078.0	12418.6	520.92
G3	GRO(2MP-124TMB)		6520466.0	12455.2	523.51
G4	GRO(C5-C12)		7953796.0	15149.8	525.01

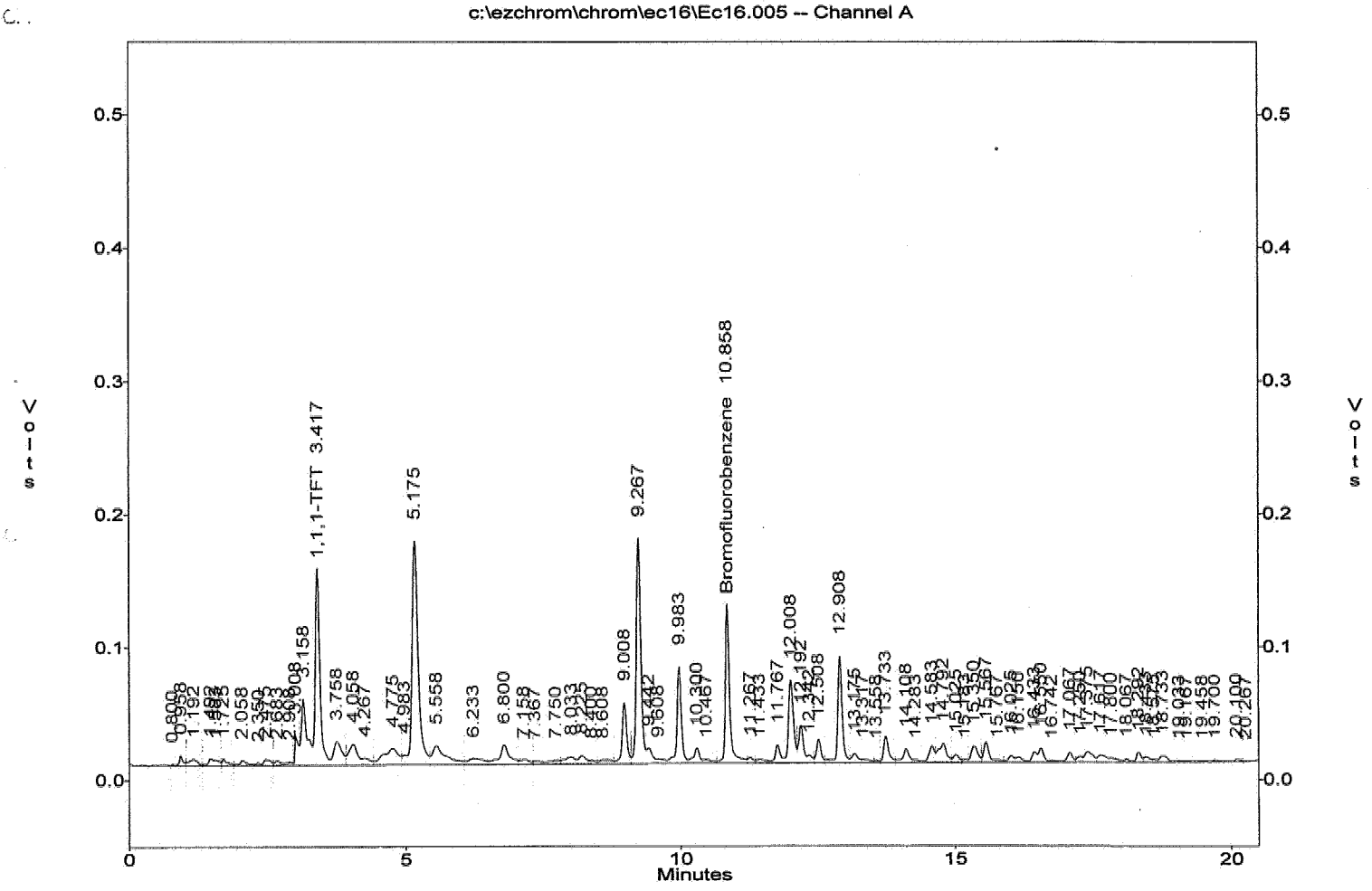


METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec16\Ec16.005
Method : c:\ezchrom\methods\Vg39c03.met
Sample ID : VA39C08C 5.0ML W
Acquired : Mar 16, 2006 15:50:53
Printed : Mar 16, 2006 16:11:25
User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
14	1,1,1-TFT	3.417	880766.0	21531.8	40.91
38	Bromofluorobenzene	10.858	658123.0	15026.0	43.80
G1	GASOLINE(TOTAL)		8238055.0	15352.4	536.60
G2	GRO(C6-C10)		6673963.0	12418.6	537.42
G3	GRO(2MP-124TMB)		6735314.0	12455.2	540.76
G4	GRO(C5-C12)		8185415.0	15149.8	540.30

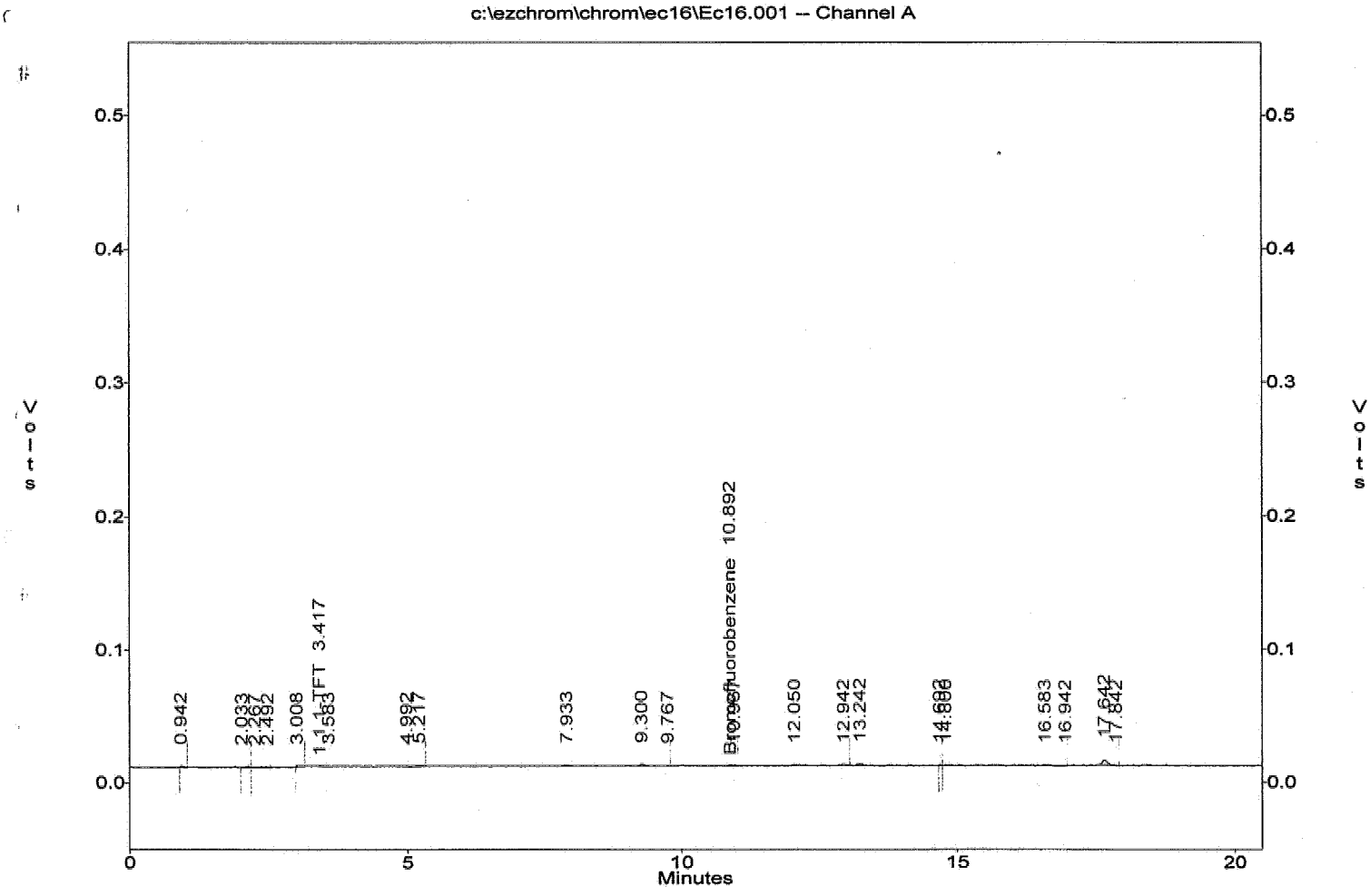


METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec16\Ec16.001
Method : c:\ezchrom\methods\Vg39c03.met
Sample ID : IB39C774
Acquired : Mar 16, 2006 13:16:58
Printed : Mar 16, 2006 13:37:30
User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
6	1,1,1-TFT	3.417	2850.0	21531.8	0.13
13	Bromofluorobenzene	10.892	3625.0	15026.0	0.24
G1	GASOLINE(TOTAL)		90080.0	15352.4	5.87
G2	GRO(C6-C10)		47780.0	12418.6	3.85
G3	GRO(2MP-124TMB)		47780.0	12455.2	3.84
G4	GRO(C5-C12)		90080.0	15149.8	5.95



INITIAL CALIBRATION

INITIAL CALIBRATION
5030B/M8015

Lab Name : EMAX Inc
Instrument ID : GCT39
GC Column : DB-5
Column size ID : 30MX.53MM
LFID & Datetime: EC03019A 03/03/06 23:46
LFID & Datetime: EC03020A 03/04/06 00:24
LFID & Datetime: EC03021A 03/04/06 01:02
LFID & Datetime: EC03022A 03/04/06 01:40
LFID & Datetime: EC03023A 03/04/06 02:18
LFID & Datetime: EC03024A 03/04/06 02:57
LFID & Datetime: EC03025A 03/04/06 03:35
CONC UNIT: ppb

COMPOUND	CONC X	CALIBRATION FACTORS (AREA)/UNIT 1.00X	2.50X	5.00X	25.00X	50.00X	100.00X	150.00X	MEAN	%RSD
Gasoline(TOTAL)	20.00	12417	13454	15665	15778	16779	16708	16666	15352.4	11.3
GRO(C6-C10)	20.00	9660	10361	13007	12779	13750	13695	13678	12418.6	13.7
GRO(2MP-124TMB)	20.00	9660	10361	13148	12809	13777	13723	13709	12455.2	13.8
GRO(C5-C12)	20.00	11591	13210	15575	15708	16713	16645	16607	15149.8	13.1
SURROGATE	**X**	**1.00X**	**2.00X**	**3.00X**	**4.00X**	**5.00X**	**7.50X**	**10.00X**	**MEAN**	**%RSD**
Bromofluorobenzene	10.00	12063	13106	13108	14879	17078	17312	17635	15026.0	15.5
1,1,1-Trifluorotoluene	10.00	17166	19380	19227	21362	23275	24612	25700	21531.8	14.6

VG39C03.MET

03/06/06

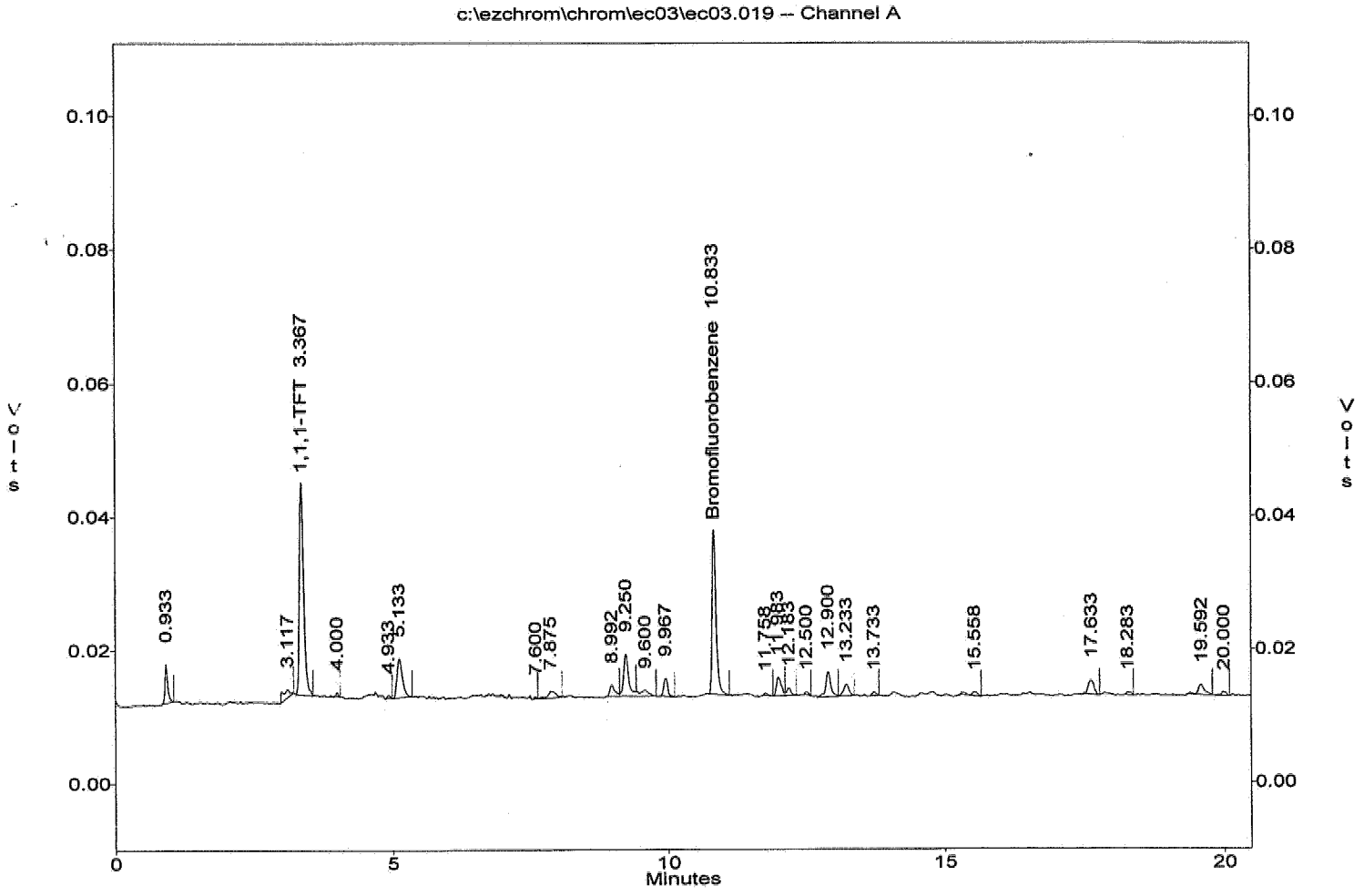
4017

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.019
Method : c:\ezchrom\methods\vg39c03.met
Sample ID : VG39C03-01 20/10
Acquired : Mar 03, 2006 23:46:19
Printed : Mar 06, 2006 12:14:18
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
3	1,1,1-TFT	3.367	171660.0	21531.8	10.00
13	Bromofluorobenzene	10.833	120632.0	15026.0	10.00
G1	GASOLINE(TOTAL)		248347.0	15352.4	20.00
G2	GRO(C6-C10)		193196.0	12418.6	20.00
G3	GRO(2MP-124TMB)		193196.0	12455.2	20.00
G4	GRO(C5-C12)		231819.0	15149.8	20.00



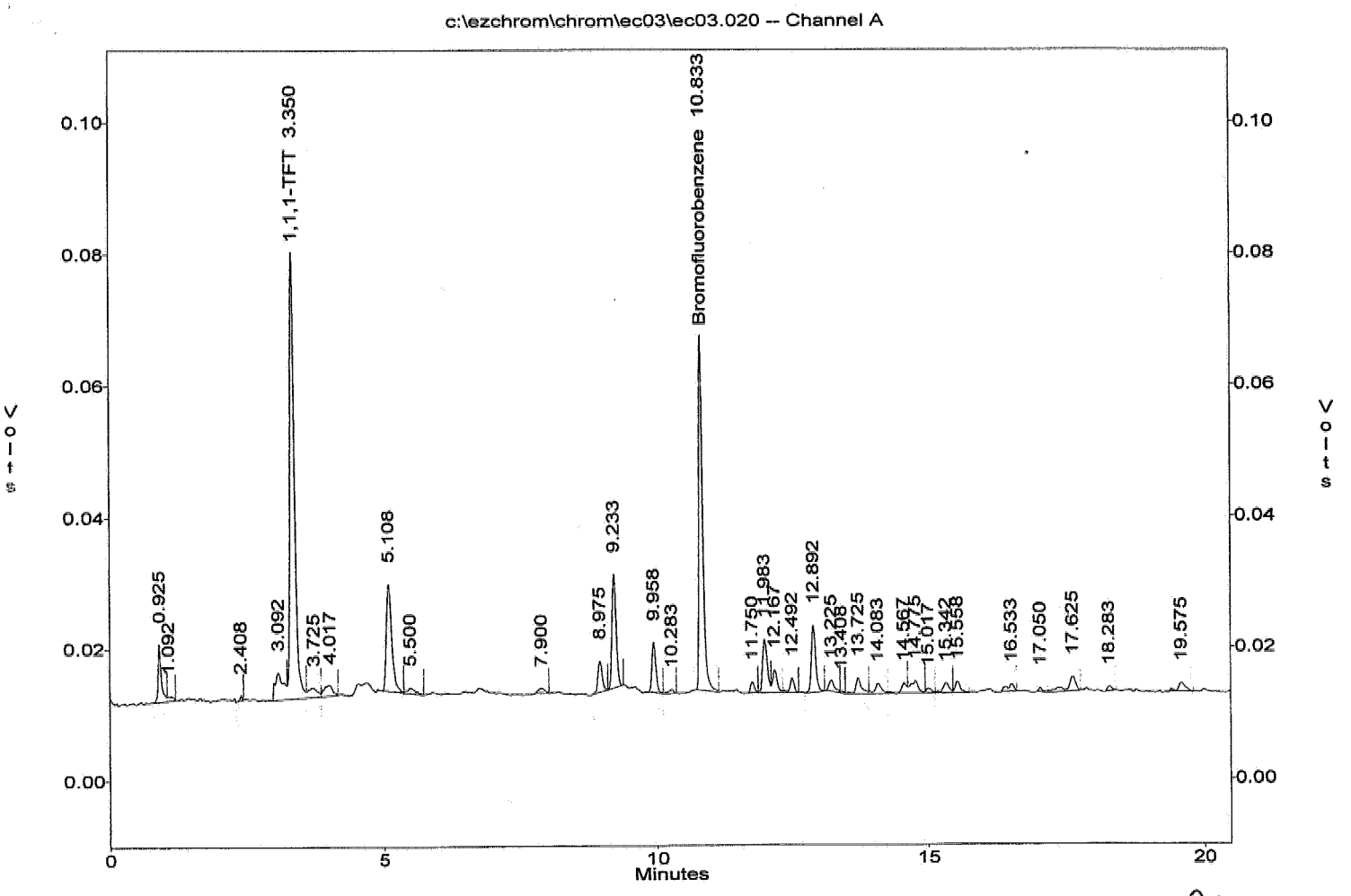
03/06/06
034018

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.020
Method : c:\ezchrom\methods\vg39c03.met
Sample ID : VG39C03-02 50/20
Acquired : Mar 04, 2006 00:24:42
Printed : Mar 06, 2006 12:14:41
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
5	1,1,1-TFT	3.350	387603.0	21531.8	20.00
15	Bromofluorobenzene	10.833	262122.0	15026.0	20.00
G1	GASOLINE(TOTAL)		672683.0	15352.4	50.00
G2	GRO(C6-C10)		518064.0	12418.6	50.00
G3	GRO(2MP-124TMB)		518064.0	12455.2	50.00
G4	GRO(C5-C12)		660488.0	15149.8	50.00



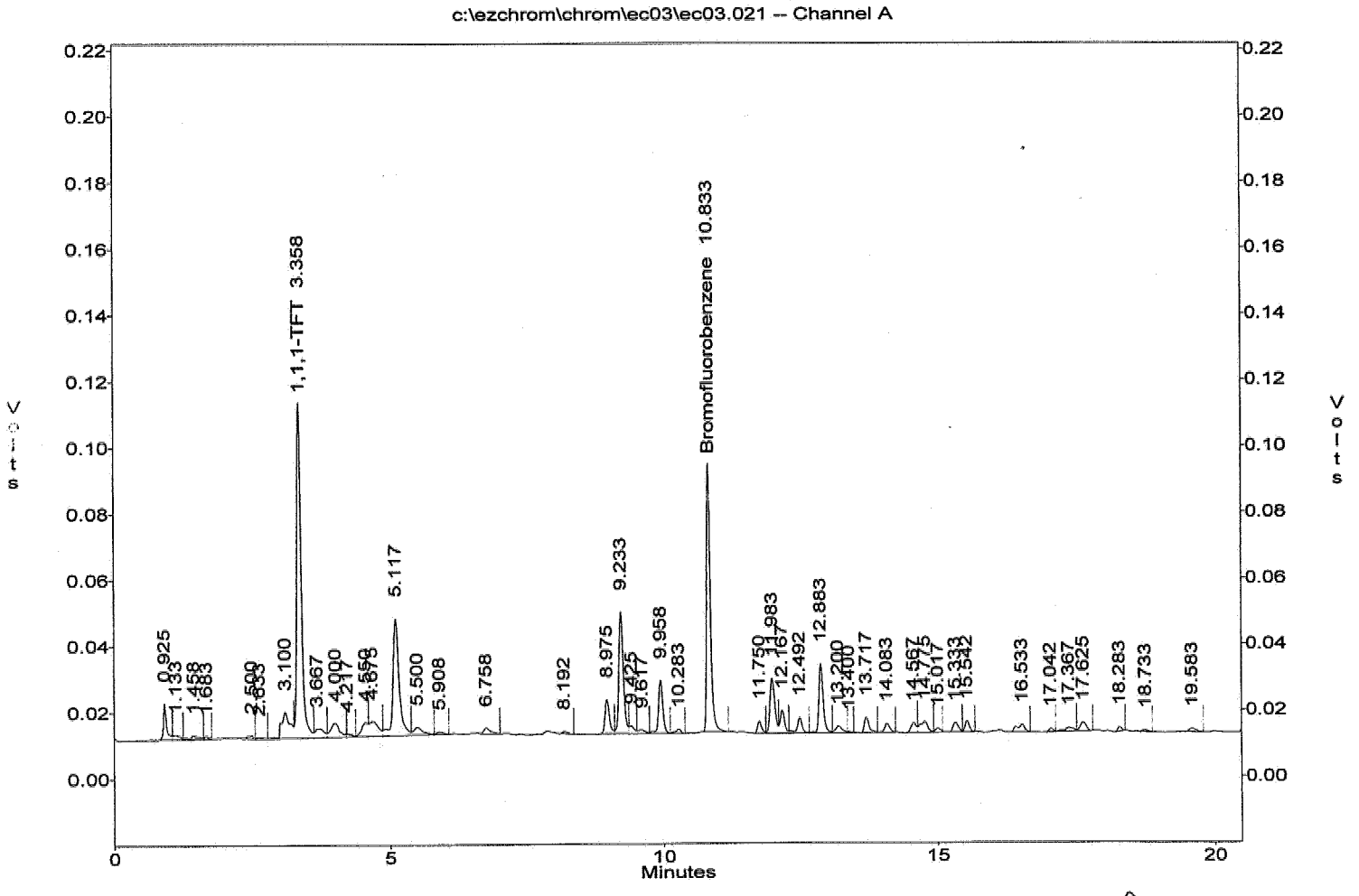
03/06/06

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.021
Method : c:\ezchrom\methods\vg39c03.met
Sample ID : VG39C03-03 100/30
Acquired : Mar 04, 2006 01:02:51
Printed : Mar 06, 2006 12:17:19
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
8	1,1,1-TFT	3.358	576813.0	21531.8	30.00
25	Bromofluorobenzene	10.833	393242.0	15026.0	30.00
G1	GASOLINE(TOTAL)		1566460.0	15352.4	100.00
G2	GRO(C6-C10)		1300710.0	12418.6	100.00
G3	GRO(2MP-124TMB)		1314789.0	12455.2	100.00
G4	GRO(C5-C12)		1557478.0	15149.8	100.00



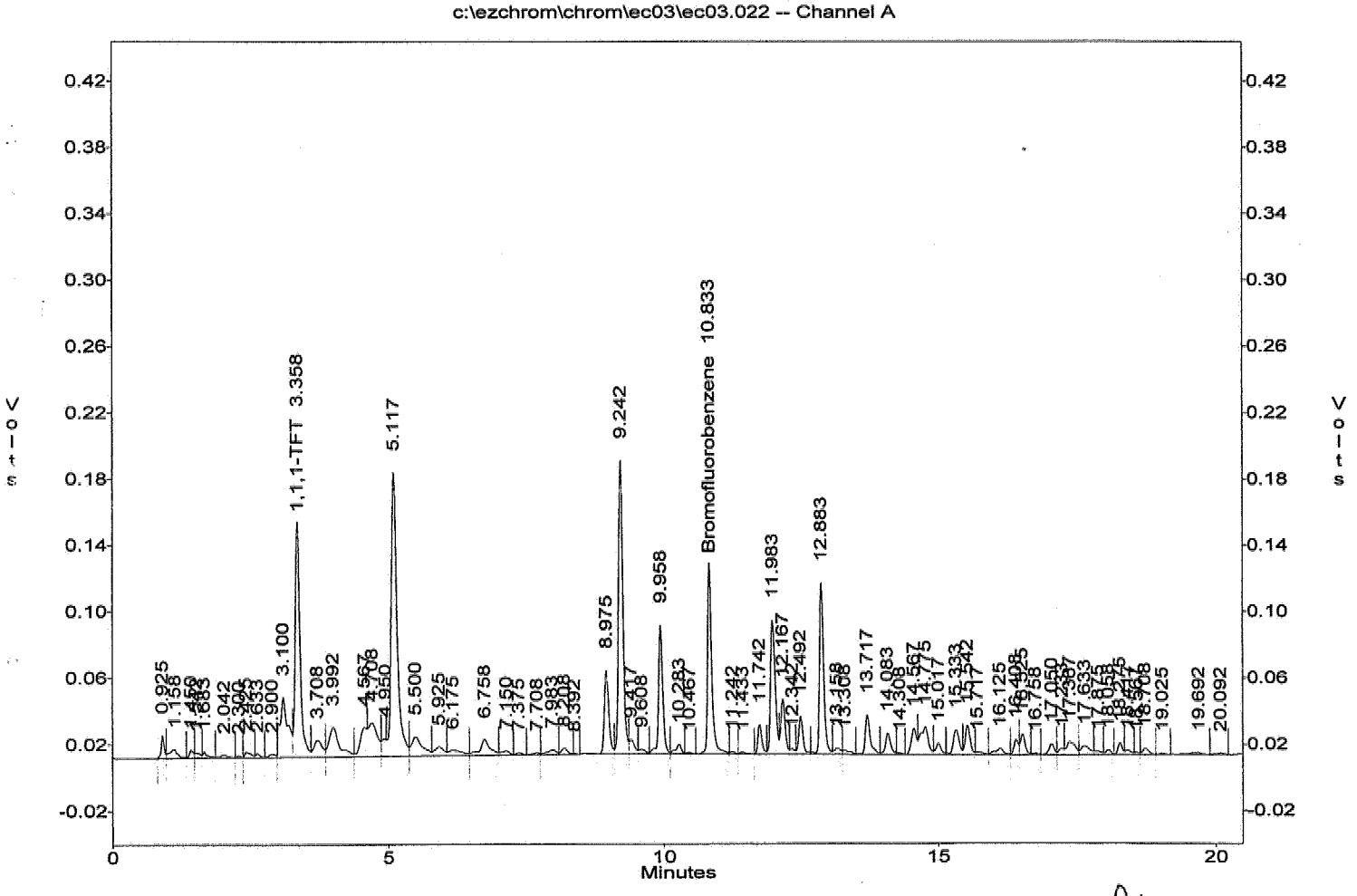
03/06/06
4020

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.022
Method : c:\ezchrom\methods\vg39c03.met
Sample ID : VG39C03-04 500/40
Acquired : Mar 04, 2006 01:40:58
Printed : Mar 06, 2006 12:18:47
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
12	1,1,1-TFT	3.358	854497.0	21531.8	40.00
36	Bromofluorobenzene	10.833	595155.0	15026.0	40.00
G1	GASOLINE(TOTAL)		7888862.0	15352.4	500.00
G2	GRO(C6-C10)		6389639.0	12418.6	500.00
G3	GRO(2MP-124TMB)		6404459.0	12455.2	500.00
G4	GRO(C5-C12)		7853986.0	15149.8	500.00



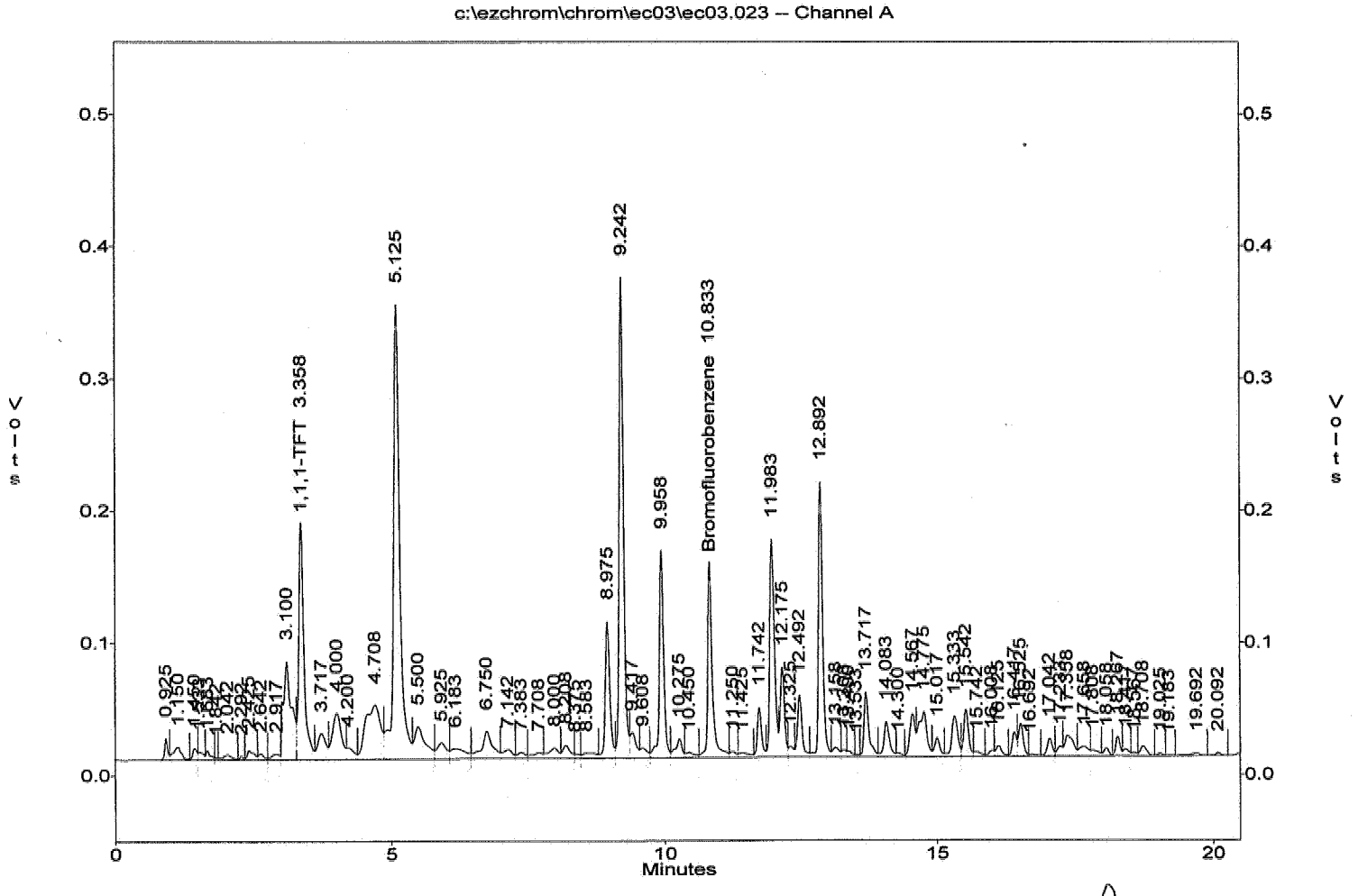
03/06/06
4021

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.023
Method : c:\ezchrom\methods\vg39c03.met
Sample ID : VG39C03-05 1000/50
Acquired : Mar 04, 2006 02:18:59
Printed : Mar 06, 2006 12:20:22
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
13	1,1,1-TFT	3.358	1163757.0	21531.8	50.00
37	Bromofluorobenzene	10.833	853904.0	15026.0	50.00
G1	GASOLINE(TOTAL)		16778924.0	15352.4	1000.00
G2	GRO(C6-C10)		13749773.0	12418.6	1000.00
G3	GRO(2MP-124TMB)		13776743.0	12455.2	1000.00
G4	GRO(C5-C12)		16712874.0	15149.8	1000.00



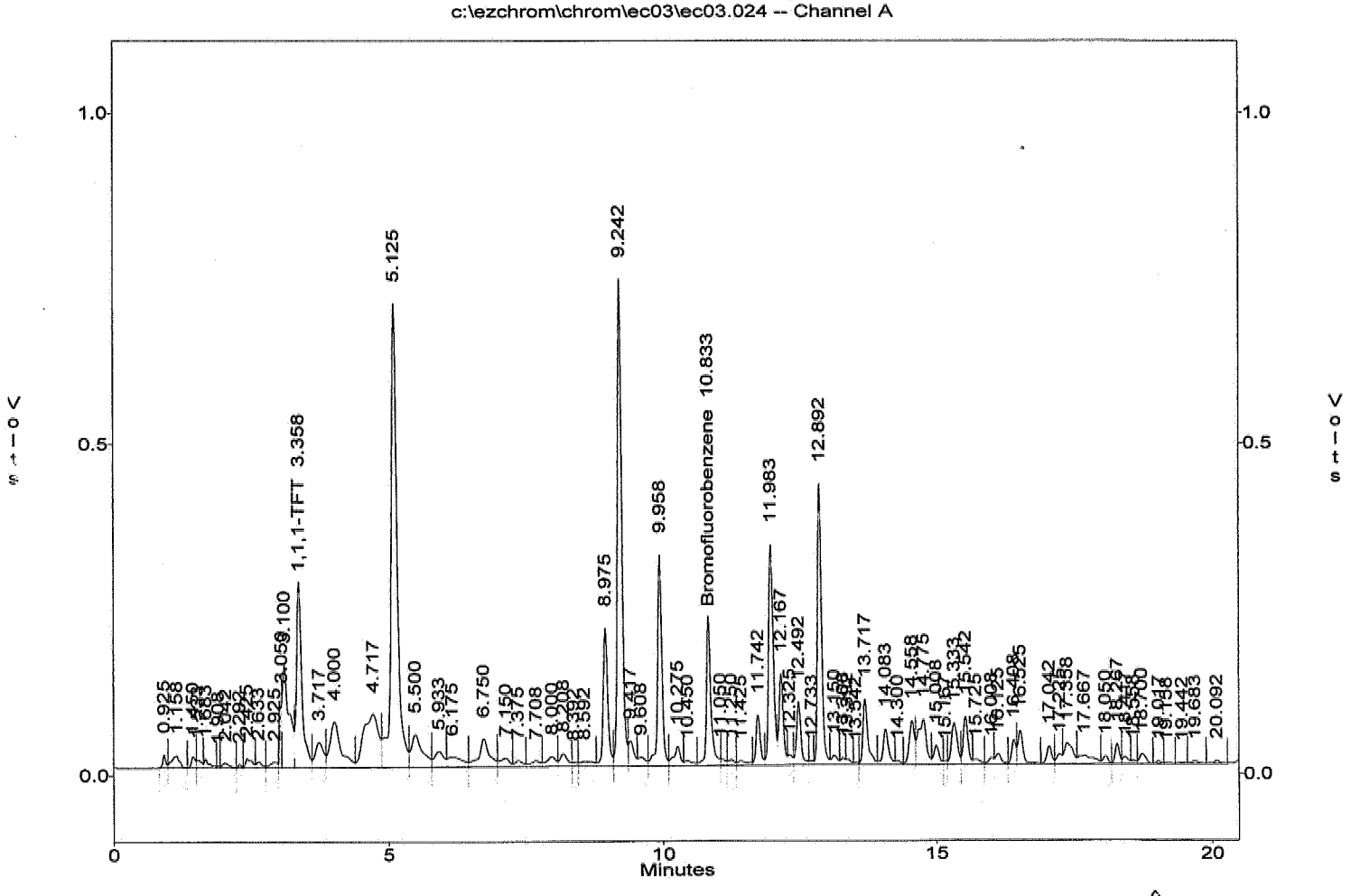
03/06/06

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.024
Method : c:\ezchrom\methods\vg39c03.met
Sample ID : VG39C03-06 2000/75
Acquired : Mar 04, 2006 02:57:07
Printed : Mar 06, 2006 12:21:39
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
14	1,1,1-TFT	3.358	1845865.0	21531.8	75.00
37	Bromofluorobenzene	10.833	1298426.0	15026.0	75.00
G1	GASOLINE(TOTAL)		33415984.0	15352.4	2000.00
G2	GRO(C6-C10)		27390820.0	12418.6	2000.00
G3	GRO(2MP-124TMB)		27446880.0	12455.2	2000.00
G4	GRO(C5-C12)		33290400.0	15149.8	2000.00



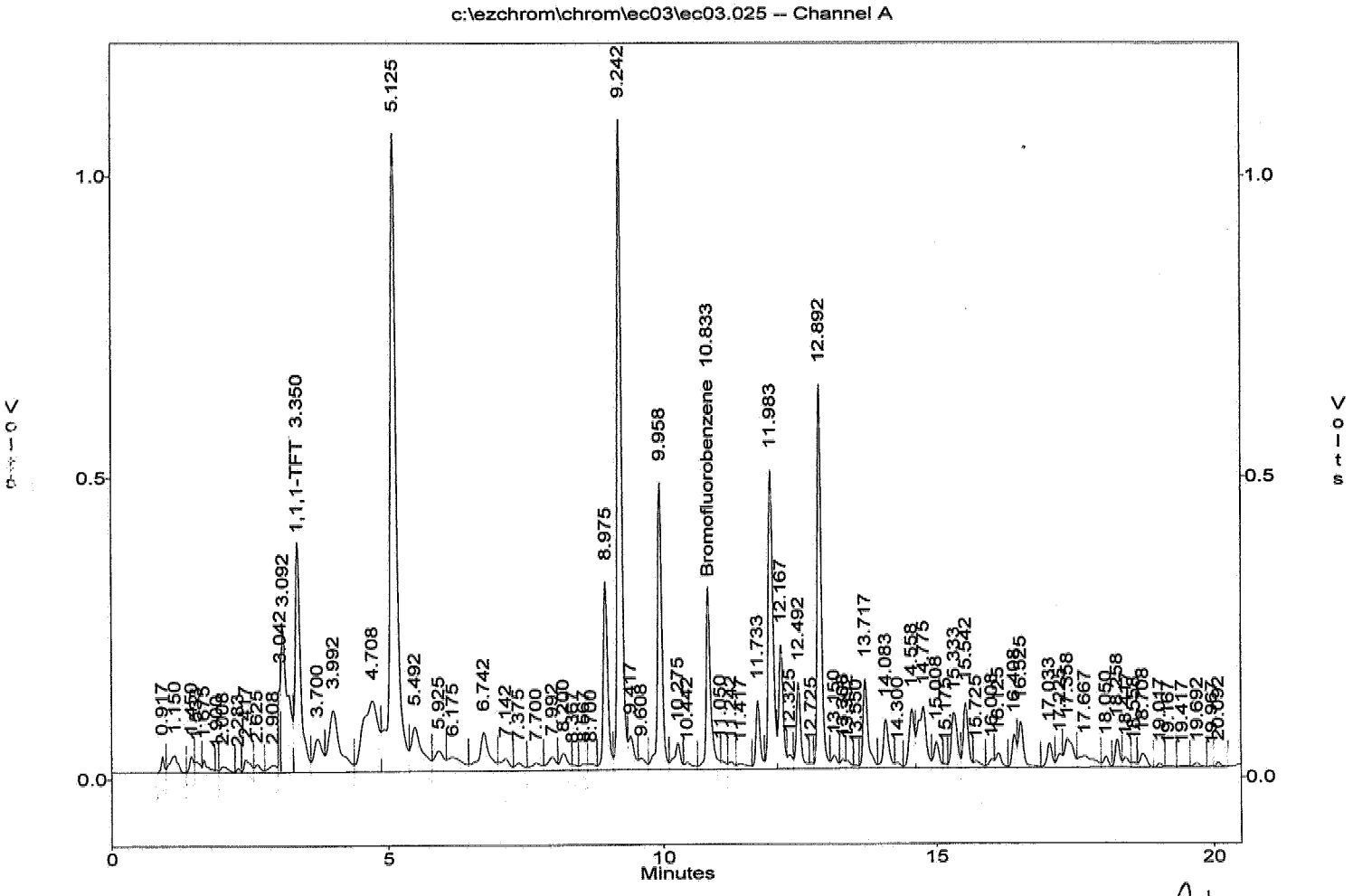
AS 03/06/06
4023

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.025
Method : c:\ezchrom\methods\vg39c03.met
Sample ID : VG39C03-07 3000/100
Acquired : Mar 04, 2006 03:35:22
Printed : Mar 06, 2006 12:22:07
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
14	1,1,1-TFT	3.350	2570044.0	21531.8	100.00
38	Bromofluorobenzene	10.833	1763520.0	15026.0	100.00
G1	GASOLINE(TOTAL)		49999240.0	15352.4	3000.00
G2	GRO(C6-C10)		41032744.0	12418.6	3000.00
G3	GRO(2MP-124TMB)		41125540.0	12455.2	3000.00
G4	GRO(C5-C12)		49821432.0	15149.8	3000.00



03/06/06

SECOND SOURCE

INITIAL CALIBRATION VERIFICATION
5030B/M8015

Lab Name : EMAX
Instrument ID : GCT39
GC Columm : DB-5
Column size ID : 30MX.53MM
Mid Conc Init LFID & Datetime: EC03022A 03/04/2006 01:40
Conc Cont LFID & Datetime: EC03026A 03/04/2006 04:13
CONC UNIT : ppb

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Gasoline(TOTAL)	0.000	0.000	0.000	500.0	15352.4	7188130	468.21	-6		15
GRO(C6-C10)	0.000	0.000	0.000	500.0	12418.6	5837213	470.04	-6		15
GRO(2MP-124TMB)	0.000	0.000	0.000	500.0	12455.2	5812679	466.69	-7		15
GRO(C5-C12)	0.000	0.000	0.000	500.0	15149.8	7136784	471.08	-6		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
Bromofluorobenzene	10.833	10.771	10.895	40.0	15026.0	621377	41.35	3		15
1,1,1-Trifluorotoluene	3.358	3.257	3.459	40.0	21531.8	834546	38.76	-3		15

VG39C03.MET

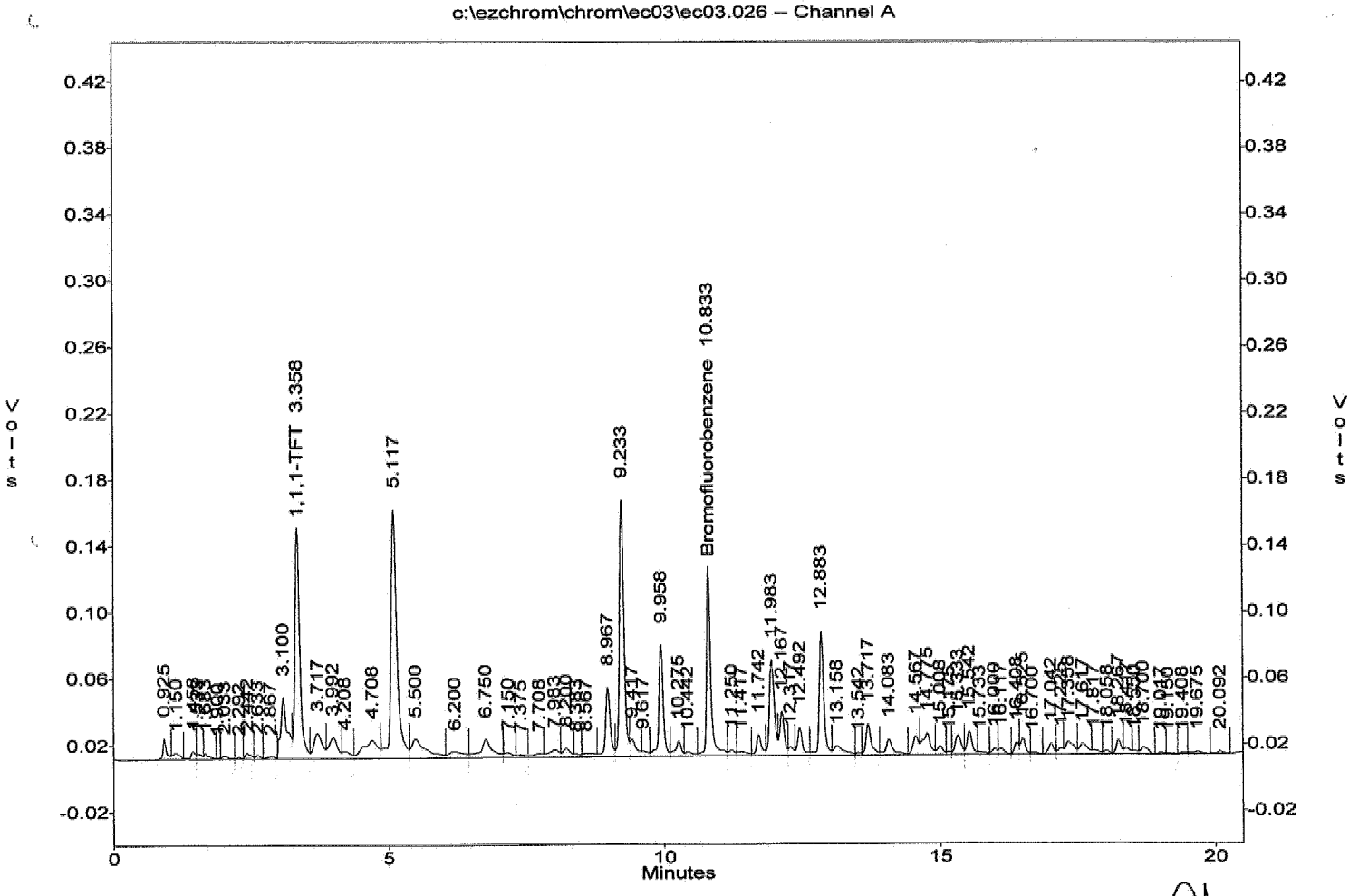
AA
03/06/04
4026

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.026
Method : c:\ezchrom\methods\vg39c03.met
Sample ID : IVG39C0301 500/40
Acquired : Mar 04, 2006 04:13:31
Printed : Mar 06, 2006 12:24:44
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
13	1,1,1-TFT	3.358	834546.0	21531.8	38.76
36	Bromofluorobenzene	10.833	621377.0	15026.0	41.35
G1	GASOLINE(TOTAL)		7188130.0	15352.4	468.21
G2	GRO(C6-C10)		5837213.0	12418.6	470.04
G3	GRO(2MP-124TMB)		5812679.0	12455.2	466.69
G4	GRO(C5-C12)		7136784.0	15149.8	471.08



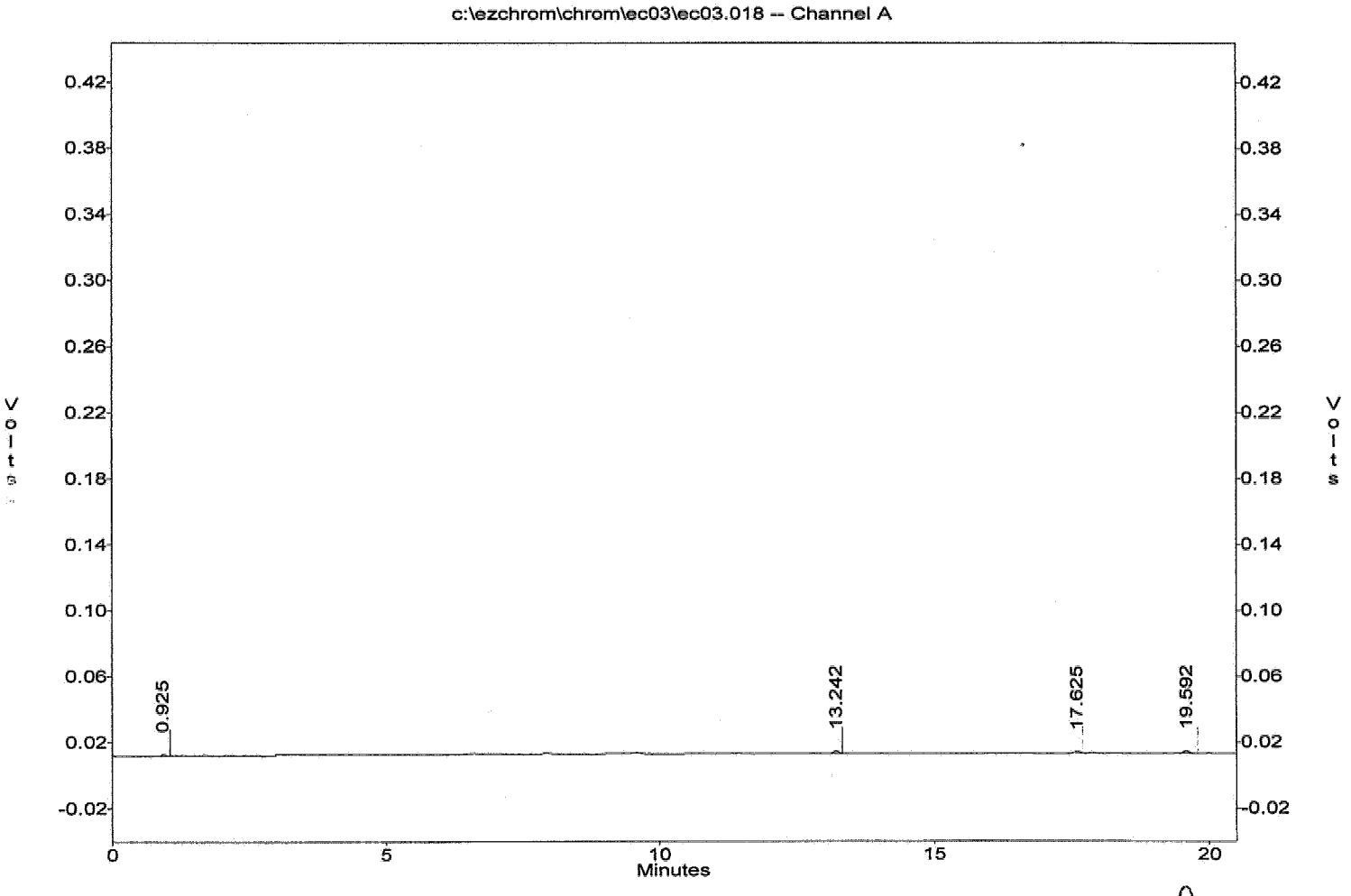
DA 03/06/06
4027

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.018
Method : c:\ezchrom\methods\vg39c03.met
Sample ID : IB39C735
Acquired : Mar 03, 2006 23:07:55
Printed : Mar 06, 2006 12:25:52
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
--	1,1,1-TFT	3.330	0.0	0.0	0.00
--	Bromofluorobenzene	10.850	0.0	0.0	0.00
G1	GASOLINE(TOTAL)		21778.0	15352.4	1.42
G2	GRO(C6-C10)		0.0	12418.6	0.00
G3	GRO(2MP-124TMB)		0.0	12455.2	0.00
G4	GRO(C5-C12)		12407.0	15149.8	0.82

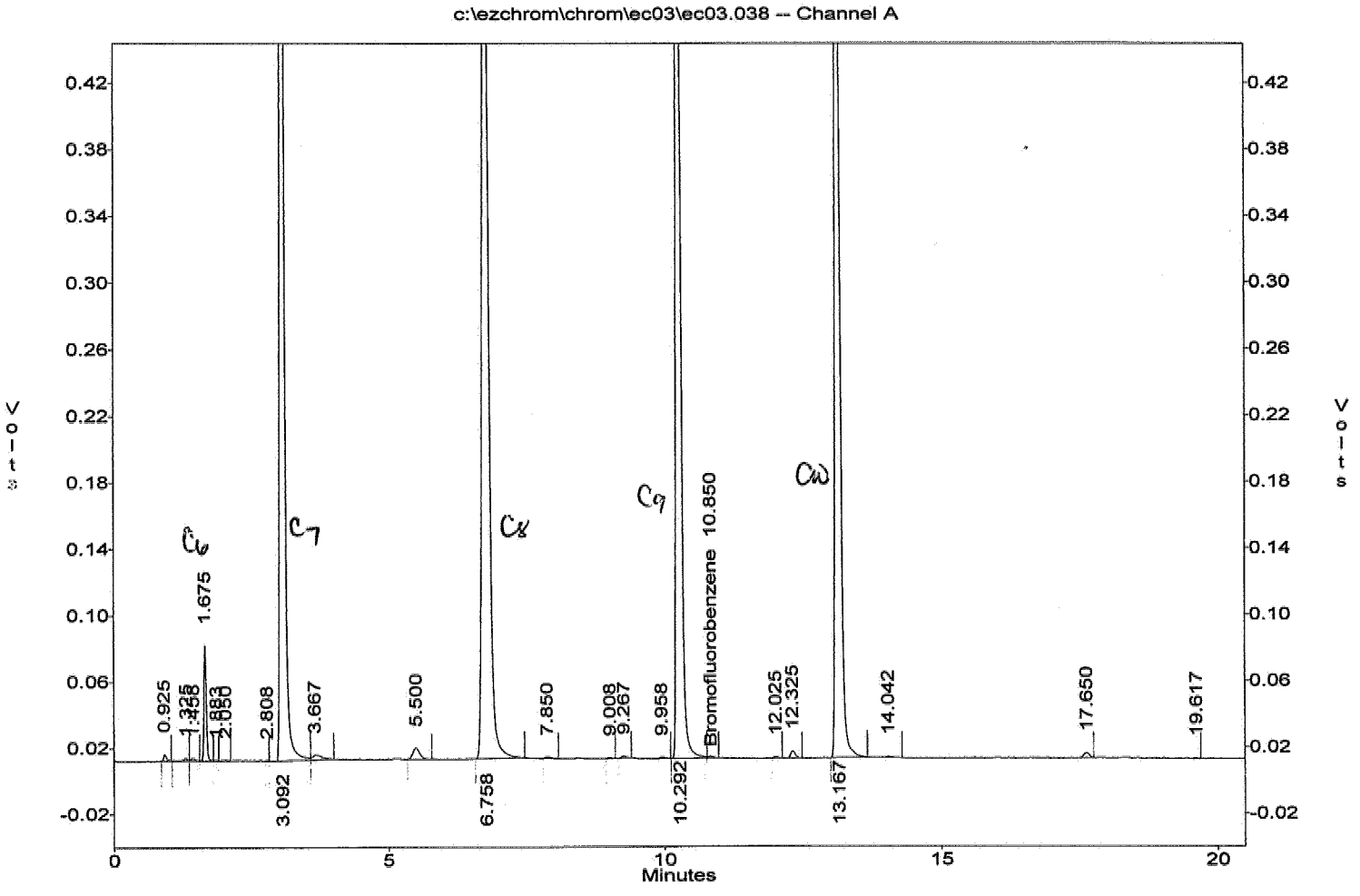


METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.038
Method : c:\ezchrom\methods\vg39c03.met
Sample ID : GRO
Acquired : Mar 04, 2006 11:51:49
Printed : Mar 07, 2006 09:10:15
User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
--	1,1,1-TFT	3.330	0.0	0.0	0.00
17	Bromofluorobenzene	10.850	7464.0	15026.0	0.50
G1	GASOLINE(TOTAL)		19320312.0	15352.4	1258.46
G2	GRO(C6-C10)		19276316.0	12418.6	1552.21
G3	GRO(2MP-124TMB)		14900208.0	12455.2	1196.30
G4	GRO(C5-C12)		19318510.0	15149.8	1275.17

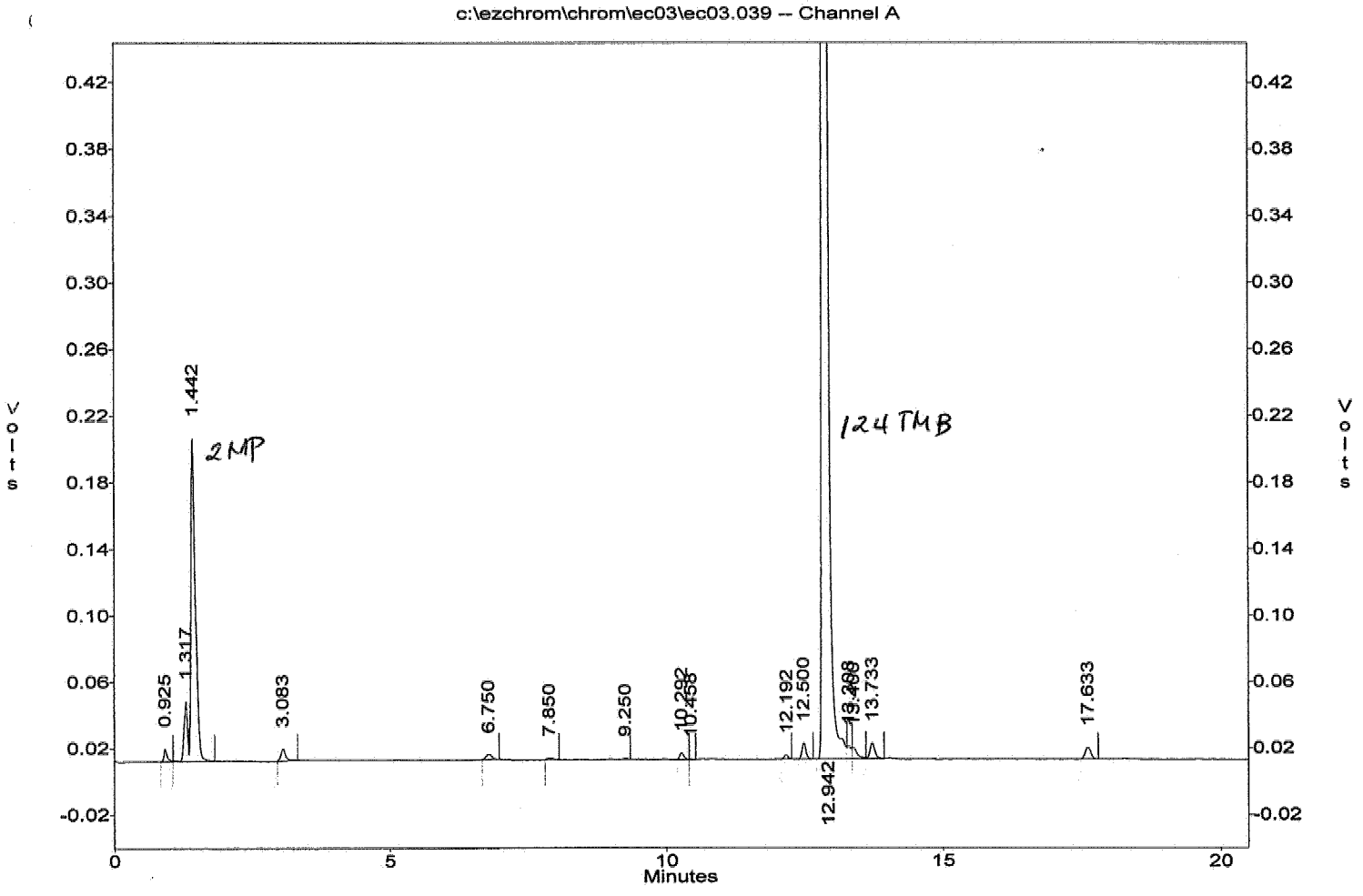


METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.039
Method : c:\ezchrom\methods\vg39c03.met
Sample ID : 2MP/1,2,4-TMB Ab 3/6 W
Acquired : Mar 04, 2006 12:30:00
Printed : Mar 07, 2006 09:11:54
User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
--	1,1,1-TFT	3.330	0.0	0.0	0.00
--	Bromofluorobenzene	10.850	0.0	0.0	0.00
G1	GASOLINE(TOTAL)		9695057.0	15352.4	631.50
G2	GRO(C6-C10)		8269772.0	12418.6	665.92
G3	GRO(2MP-124TMB)		8269772.0	12455.2	663.96
G4	GRO(C5-C12)		9695057.0	15149.8	639.95



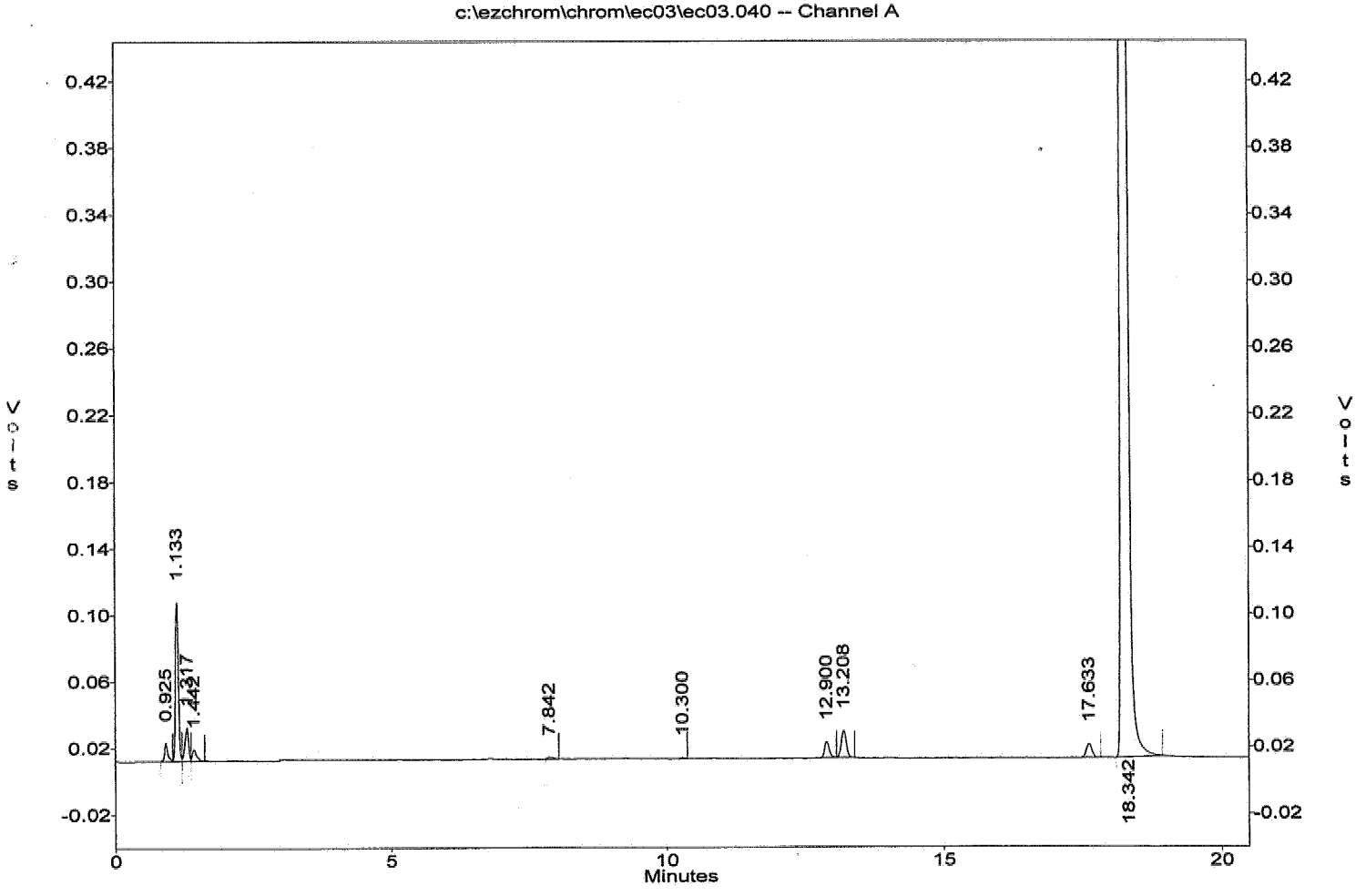
4030

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.040
Method : c:\ezchrom\methods\vg39c03.met
Sample ID : PENTANE/NAPHTHALENE
Acquired : Mar 04, 2006 13:08:05
Printed : Mar 07, 2006 09:12:26
User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
--	1,1,1-TFT	3.330	0.0	0.0	0.00
--	Bromofluorobenzene	10.850	0.0	0.0	0.00
G1	GASOLINE(TOTAL)		10242312.0	15352.4	667.15
G2	GRO(C6-C10)		66615.0	12418.6	5.36
G3	GRO(2MP-124TMB)		66615.0	12455.2	5.35
G4	GRO(C5-C12)		10242312.0	15149.8	676.07

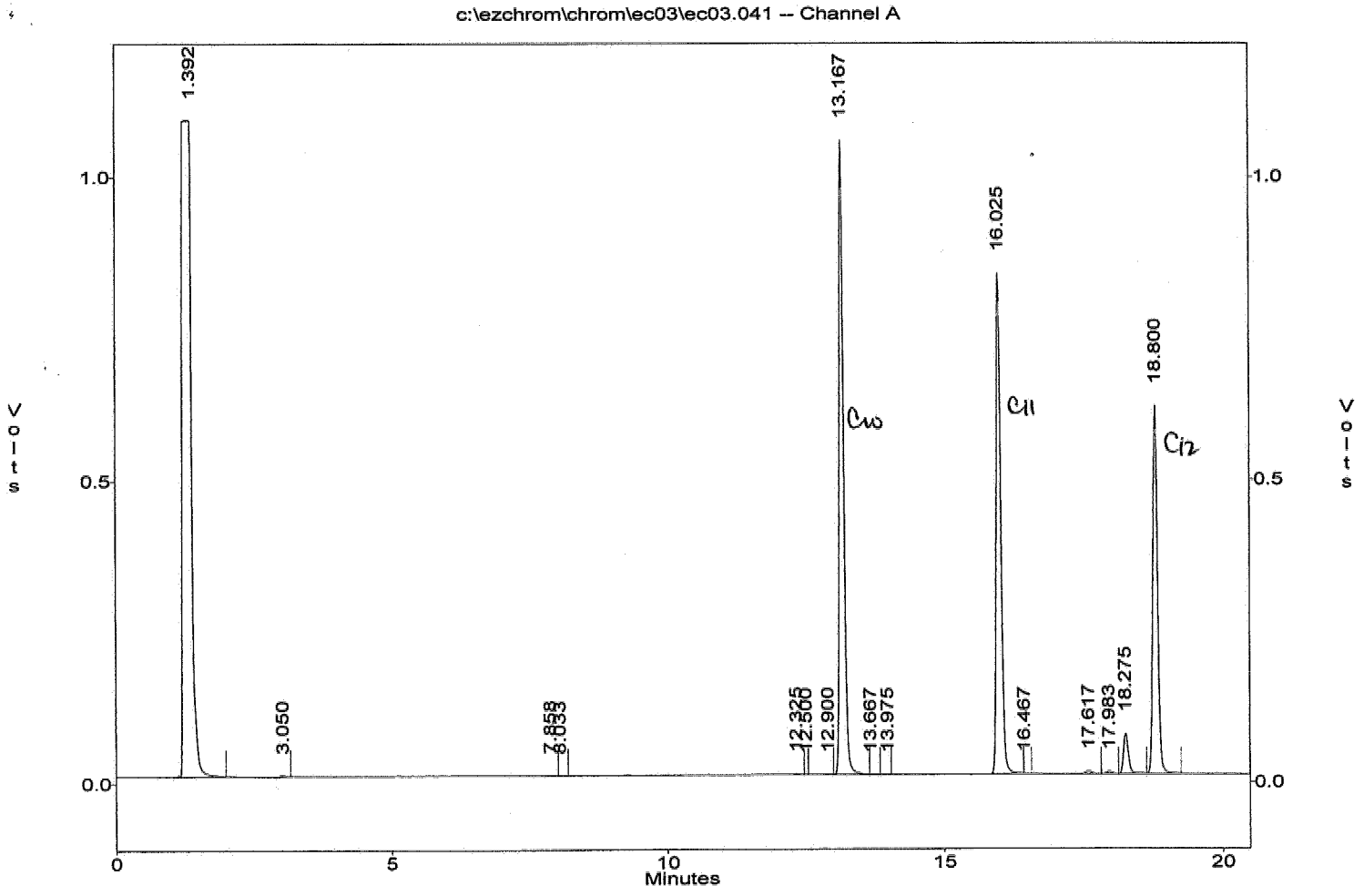


METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.041
Method : c:\ezchrom\methods\vg39c03.met
Sample ID : DRO
Acquired : Mar 04, 2006 13:46:12
Printed : Mar 06, 2006 14:18:54
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
--	1,1,1-TFT	3.330	0.0	0.0	0.00
--	Bromofluorobenzene	10.850	0.0	0.0	0.00
G1	GASOLINE(TOTAL)		27431092.0	15352.4	1786.76
G2	GRO(C6-C10)		5737911.0	12418.6	462.04
G3	GRO(2MP-124TMB)		39041.0	12455.2	3.13
G4	GRO(C5-C12)		27431092.0	15149.8	1810.66



DAILY CALIBRATION

CONTINUE CALIBRATION
5030B/M8015

Lab Name : EMAX
Instrument ID : GCT39
GC Column : DB-5
Column size ID : 30MX.53MM
Mid Conc Init LFID & Datetime: EC03022A 03/04/2006 01:40
Conc Cont LFID & Datetime: EC16002A 03/16/2006 13:55 ✓
CONC UNIT : ppb

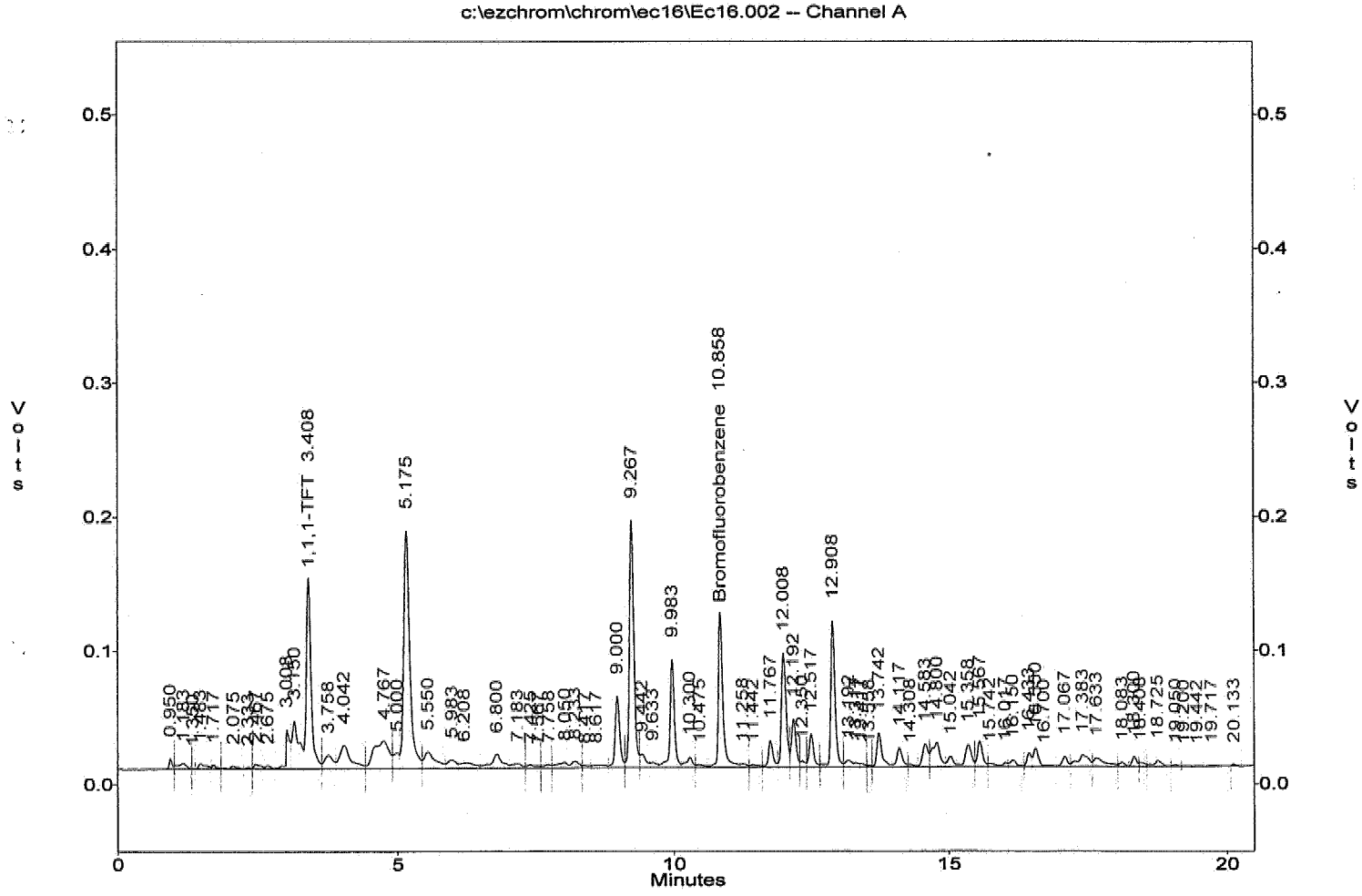
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Gasoline(TOTAL)	0.000	0.000	0.000	500.0	15352.4	8783483	572.13	14		15
GRO(C6-C10)	0.000	0.000	0.000	500.0	12418.6	7078166	569.97	14		15
GRO(2MP-124TMB)	0.000	0.000	0.000	500.0	12455.2	7114184	571.18	14		15
GRO(C5-C12)	0.000	0.000	0.000	500.0	15149.8	8748073	577.44	15		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
Bromofluorobenzene	10.858	10.796	10.920	40.0	15026.0	638271	42.48	6		15
1,1,1-Trifluorotoluene	3.408	3.307	3.509	40.0	21531.8	855542	39.73	-1		15

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec16\Ec16.002
Method : c:\ezchrom\methods\Vg39c03.met
Sample ID : CVG39C03774 500/40
Acquired : Mar 16, 2006 13:55:27
Printed : Mar 16, 2006 14:15:59
User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
12	1,1,1-TFT	3.408	855542.0	21531.8	39.73
37	Bromofluorobenzene	10.858	638271.0	15026.0	42.48
G1	GASOLINE(TOTAL)		8783483.0	15352.4	572.13
G2	GRO(C6-C10)		7078166.0	12418.6	569.96
G3	GRO(2MP-124TMB)		7114184.0	12455.2	571.18
G4	GRO(C5-C12)		8748073.0	15149.8	577.44



CONTINUE CALIBRATION
5030B/M8015

Lab Name : EMAX
Instrument ID : GCT39
GC Column : DB-5
Column size ID : 30MX.53MM
Mid Conc Init LFID & Datetime: EC03022A 03/04/2006 01:40
Conc Cont LFID & Datetime: EC16014A 03/16/2006 21:36
CONC UNIT : ppb

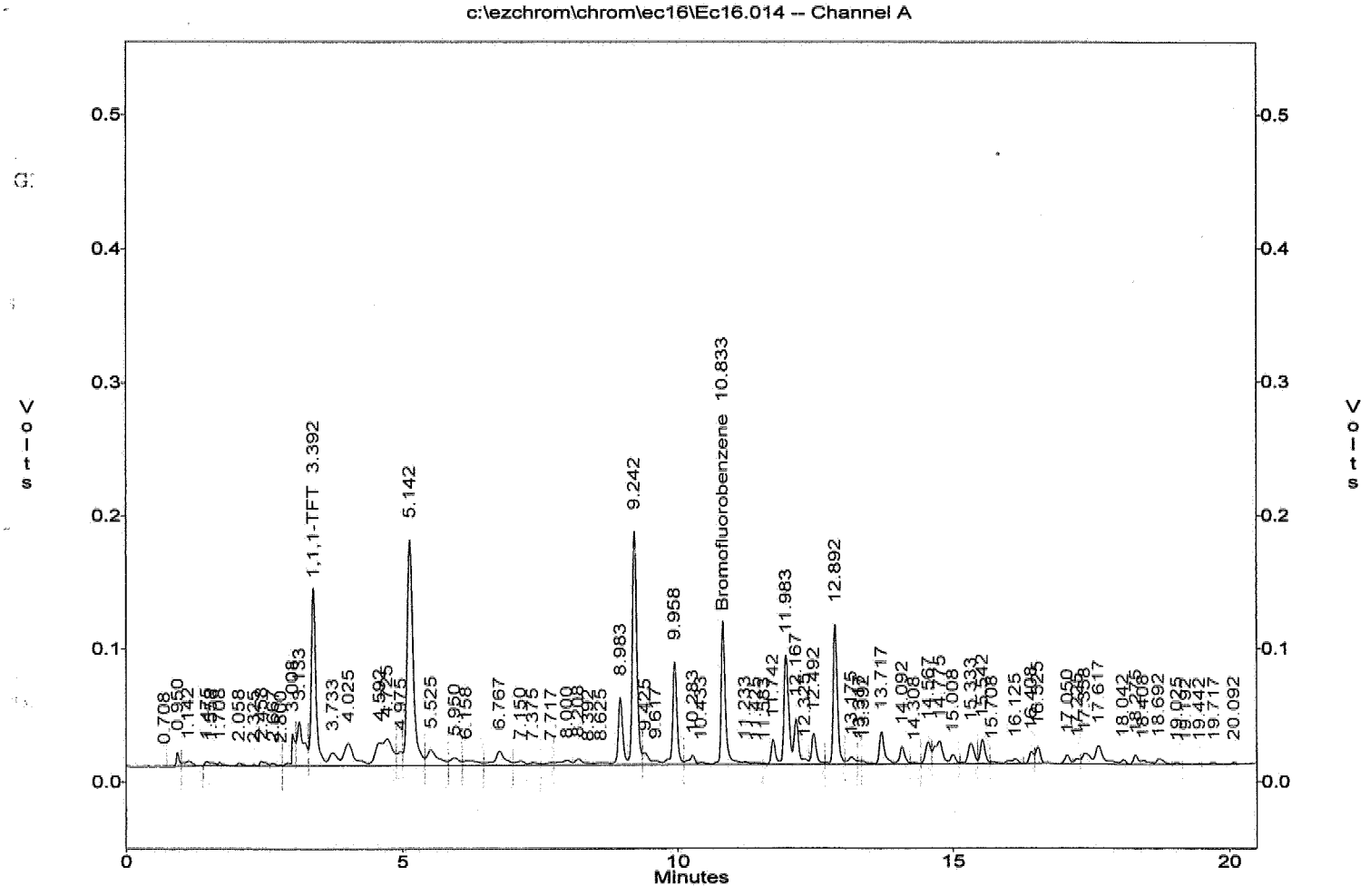
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Gasoline(TOTAL)	0.000	0.000	0.000	500.0	15352.4	8130363	529.58	6		15
GRO(C6-C10)	0.000	0.000	0.000	500.0	12418.6	6556834	527.98	6		15
GRO(2MP-124TMB)	0.000	0.000	0.000	500.0	12455.2	6585515	528.73	6		15
GRO(C5-C12)	0.000	0.000	0.000	500.0	15149.8	8087111	533.81	7		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
Bromofluorobenzene	10.833	10.771	10.895	40.0	15026.0	582900	38.79	-3		15
1,1,1-Trifluorotoluene	3.392	3.291	3.493	40.0	21531.8	783130	36.37	-9		15

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec16\Ec16.014
Method : c:\ezchrom\methods\Vg39c03.met
Sample ID : CVG39C03775 500/40
Acquired : Mar 16, 2006 21:36:21
Printed : Mar 16, 2006 21:56:52
User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
14	1,1,1-TFT	3.392	783130.0	21531.8	36.37
39	Bromofluorobenzene	10.833	582900.0	15026.0	38.79
G1	GASOLINE(TOTAL)		8130363.0	15352.4	529.58
G2	GRO(C6-C10)		6556834.0	12418.6	527.98
G3	GRO(2MP-124TMB)		6585515.0	12455.2	528.74
G4	GRO(C5-C12)		8087111.0	15149.8	533.81



CONTINUE CALIBRATION
5030B/M8015

Lab Name : EMAX
Instrument ID : GCT39
GC Columm : DB-5
Column size ID : 30MX.53MM
Mid Conc Init LFID & Datetime: EC03022A 03/04/2006 01:40
Conc Cont LFID & Datetime: EC16026A 03/17/2006 05:14
CONC UNIT : ppb

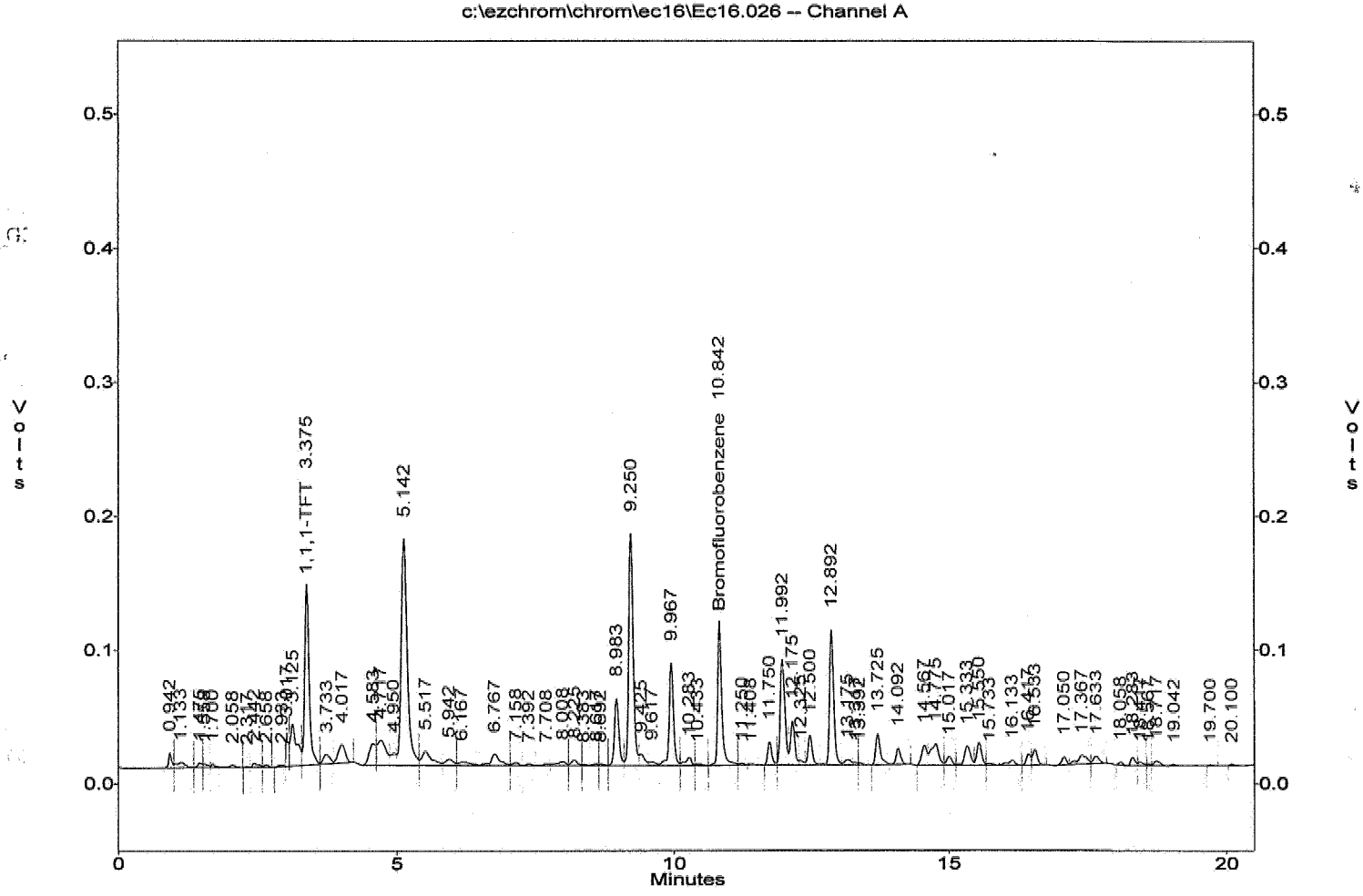
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Gasoline(TOTAL)	0.000	0.000	0.000	500.0	15352.4	7162239	466.52	-7		15
GRO(C6-C10)	0.000	0.000	0.000	500.0	12418.6	5891643	474.42	-5		15
GRO(2MP-124TMB)	0.000	0.000	0.000	500.0	12455.2	5927071	475.87	-5		15
GRO(C5-C12)	0.000	0.000	0.000	500.0	15149.8	7147860	471.81	-6		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
Bromofluorobenzene	10.842	10.780	10.904	40.0	15026.0	561895	37.40	-7		15
1,1,1-Trifluorotoluene	3.375	3.274	3.476	40.0	21531.8	758055	35.21	-12		15

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec16\Ec16.026
Method : c:\ezchrom\methods\Vg39c03.met
Sample ID : CVG39C03777 500/40
Acquired : Mar 17, 2006 05:14:19
Printed : Mar 17, 2006 05:34:51
User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
13	1,1,1-TFT	3.375	758055.0	21531.8	35.21
39	Bromofluorobenzene	10.842	561895.0	15026.0	37.39
G1	GASOLINE(TOTAL)		7162239.0	15352.4	466.52
G2	GRO(C6-C10)		5891643.0	12418.6	474.42
G3	GRO(2MP-124TMB)		5927071.0	12455.2	475.87
G4	GRO(C5-C12)		7147860.0	15149.8	471.81



ANALYTICAL LOGS

ANALYSIS RUN LOG FOR NONHALOGENATED VOLATILES

SOP: ☑ EMAX-5030B Rev. No. 1 ☑ EMAX-BTEXM Rev. No. 1 ☑ EMAX-8015G Rev. No. 1 ☐ SC 3/06/04

Starting Date: 3/03/06 Time: 23:07 Ending Date: ~~3/03/06~~ 3/04/06 Time: 22:29 13:46 SC 3/06/06 Book # A39-024

ANALYTICAL BATCH # N/A

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	Purge Volume	pH	Matrix	Notes
*01	EC03-018	LB39C735	5.0ml	5.0ml	N/A	W	
*02	-019	VG39C03-01	.04ml/1ml				20/10
*03	-020	-02	.1ml/2ml				50/20
*04	-021	-03	.2ml/3ml				100/30
*05	-022	-04	1ml/4ml				500/40 GAS
*06	-023	-05	2ml/5ml				1000/50 ICAL
*07	-024	-06	4ml/7.5ml				2000/75
*08	-025	-07	6ml/10ml				3000/100
*09	-026	VG39C0301	.5ml/4ml				500/40 GAS ICV
*10	-027	VG39C0302	1ml/5ml				1000/50 GAS ICV
*11	-028	LB39C736 ~~TEST~~ SC 3/06/06	5.0ml				
*12	-029	VA39C03-01	.05ml				.5 PPB
*13	-030	-02	.1ml				1 PPB
*14	-031	-03	.5ml				5PPB
*15	-032	-04	2ml				20 PPB BTEXM
*16	-033	-05	4ml				40 PPB ICAL
*17	-034	-06	7.5ml				75 PPB
*18	-035	-07	10ml				100 PPB
*19	-036	VA39C0303	2ml				BTEX ICV 20/20
*20	-037	VA39C0304	4ml				BTEX ICV 40/40
*21	-038	GRO	.5ml				
*22	-039	2MP/1,2,4-TMB	1ml/.5ml				
*23	-040	PENTANE/NAPHTHALENE	3ml/.5ml				
*24	-041	DRO	.5ml				
*25							
*26							
*27							
*28							SC 3/03/06
*29							
*30							

Instrument No:	39
Initial Calibration Reference	
	FIDChannel A / PIDChannel B
Method File	VG39C03 / VG39C03
Date	3/03/06 / 3/03/06
ICAL ID	VG39C03-GAS
	VA39C03-BTEXM
ICV ID	IVG39C0301/02 GAS
	IVA39C0303/-04 BTEXM
Std.	ID / Conc.(mg/L)
DCC GAS ICAL	SV2A-04-58 / 2500
DCC BTEX ICAL	SV2C-04-30-3 / 50
BFB/TFT	SV2C-04-31-3 / 50
LCS/LCSD GAS ICV	SV2A-04-67 / 5000
MS/MSD	— / —
BTEX LCS/ICV	SV2C-04-31-1 / 50
Solvent	ID
Methanol	

Electronic Data Archival	
Location	Date
EZC-3-BTEX	

Comments:

Analyzed By: SC

Disposed on: 3/06/06 By: SC

ANALYSIS RUN LOG FOR NONHALOGENATED VOLATILES

SOP: ☒ EMAX-5030B Rev. No. 1 ☐ EMAX-BTEXM Rev. No. 1 ☑ EMAX-8015G Rev. No. 1 ☐

Starting Date: 3/16/06 Time: 13:16 Ending Date: 3/17/06 Time: 7:47 Book # A39-024

ANALYTICAL BATCH # VA39C08 ** VMC0105

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	Purge Volume	pH	Matrix	Notes
*01	EC16 .001	IB39C774	5.0mL	5.0mL	N/A	W	
*02	.002	CVG39C03774	1ml/1ml				500/40 GAS
*03	.003	VA39C08B	5.0mL				
*04	.004	L					
*05	.005	C					
*06	.006	06C501-01			<2		
*07	.007	02					
*08	.008	03					
*09	.009	06C135-11					
*10	.010	11M					
*11	.011	11S					
*12	.012	12					
*13	.013	13					
*14	.014	CVG39C03775	1ml/1ml		N/A		500/40 GAS
*15	.015	CVG39C03776	1ml/1ml				500/40 GAS
*16	.016	06C119-01	5.0mL		<2		
*17	.017	02					
*18	.018	06C123-03					
*19	.019	06C127-09					
*20	.020	10					
**21	.021	VMC0105L	100ul		N/A	S	
*22	.022	C					
*23	.023	B					
*24	.024	06C120-01					
*25	.025	02					
*26	.026	CVG39C03777	1ml/1ml			W	500/40 GAS
*27	.027	CVG39C03778	1ml/1ml				500/40 GAS
*28	.028	06C120-03	100ml			S	
*29	.029	04					
*30	.030	04M					

Instrument No:	39
Initial Calibration Reference	
	FIDChannel A / PIDChannel B
Method File	VG39C03 / —
Date	03/03/06 / —
ICAL ID	— / —
	— / —
ICV ID	— / —
	— / —

Std.	ID	Conc.(mg/L)
DCC GAS	SVZA-04-58	2500
DCC BTEX	—	—
BFB/TFT	ZVZC-04-32-2	200
LCS/LCSD	SVZA-04-67	5000
MS/MSD	SVZA-04-67	5000

Solvent	ID
Methanol	

Electronic Data Archival	
Location	Date
EZC-3-BTEX	

Comments:

Analyzed By: MPA / MS

Disposed on: 3/17/06 By: MPA

LABORATORY REPORT FOR

ENSR

UPGRADIENT INVESTIGATION, TRONOX

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 06C119

CASE NARRATIVE

CLIENT: ENSR

PROJECT: UPGRADIENT INVESTIGATION, TRONOX

SDG: 06C119

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

One (1) water sample was received on 03/14/06 for Total Petroleum Hydrocarbons by Extraction analysis by Method 3520C/8015B in accordance with SW846, 3rd edition.

1. Holding Time

Analytical holding time was met. Extraction was performed on 03/16/06 and completed on 03/17/06.

2. Calibration

Initial calibration was seven points for Diesel and Motor Oil. %RSDs were within 20%. Continuing calibrations were carried out at every 12-hour interval and all recoveries were within 85-115%.

3. Method Blank

Method blank was free of contamination at the reporting limit.

4. Surrogate Recovery

Hexacosane recovery in the sample, both in the initial and re-analysis, was out of QC limit; however, Bromobenzene met the QC criteria.

5. Lab Control Sample/Lab Control Sample Duplicate

All recoveries were within QC limits.

6. Matrix Spike/Matrix Spike Duplicate

No sample was designated for MS/MSD.

7. Sample Analysis

Sample was analyzed according to the prescribed QC procedures. All criteria were met with the aforementioned exception. Sample result was quantitated from C10 to C28 using Diesel (C10-C28) calibration factor and from C28 to C38 using Motor Oil calibration factor.

Discrete peak found in the sample was not reported.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : ENSR
Project : UPGRADIENT INVESTIGATION, TRONOX

SDG NO. : 06C119
Instrument ID : GCT050

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	DSC015WB	1	NA	03/20/0621:18	03/16/0615:30	TC20015A	TC20004A	DSC015W	Method Blank
LCS1W	DSC015WL	1	NA	03/20/0619:54	03/16/0615:30	TC20013A	TC20004A	DSC015W	Lab Control Sample (LCS)
LCD1W	DSC015WC	1	NA	03/20/0620:36	03/16/0615:30	TC20014A	TC20004A	DSC015W	LCS Duplicate
PUMP BLANK	C119-02	.94	NA	03/21/0600:05	03/16/0615:30	TC20019A	TC20017A	DSC015W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: ENSR	Date Collected:	03/13/06
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/14/06
Batch No.	: 06C119	Date Extracted:	03/16/06 15:30
Sample ID	: PUMP BLANK	Date Analyzed:	03/21/06 00:05
Lab Samp ID	: C119-02	Dilution Factor:	.94
Lab File ID	: TC20019A	Matrix	: WATER
Ext Btch ID	: DSC015W	% Moisture	: NA
Calib. Ref.	: TC20017A	Instrument ID	: GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DRO	ND	.47	.094
ORO	ND	.94	.094

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	66	45-154
HEXACOSANE	62*	63-165

RL : Reporting Limit

Parameter	H-C Range
DRO	C10-C28
ORO	C28-C38

* : Out of QC limits

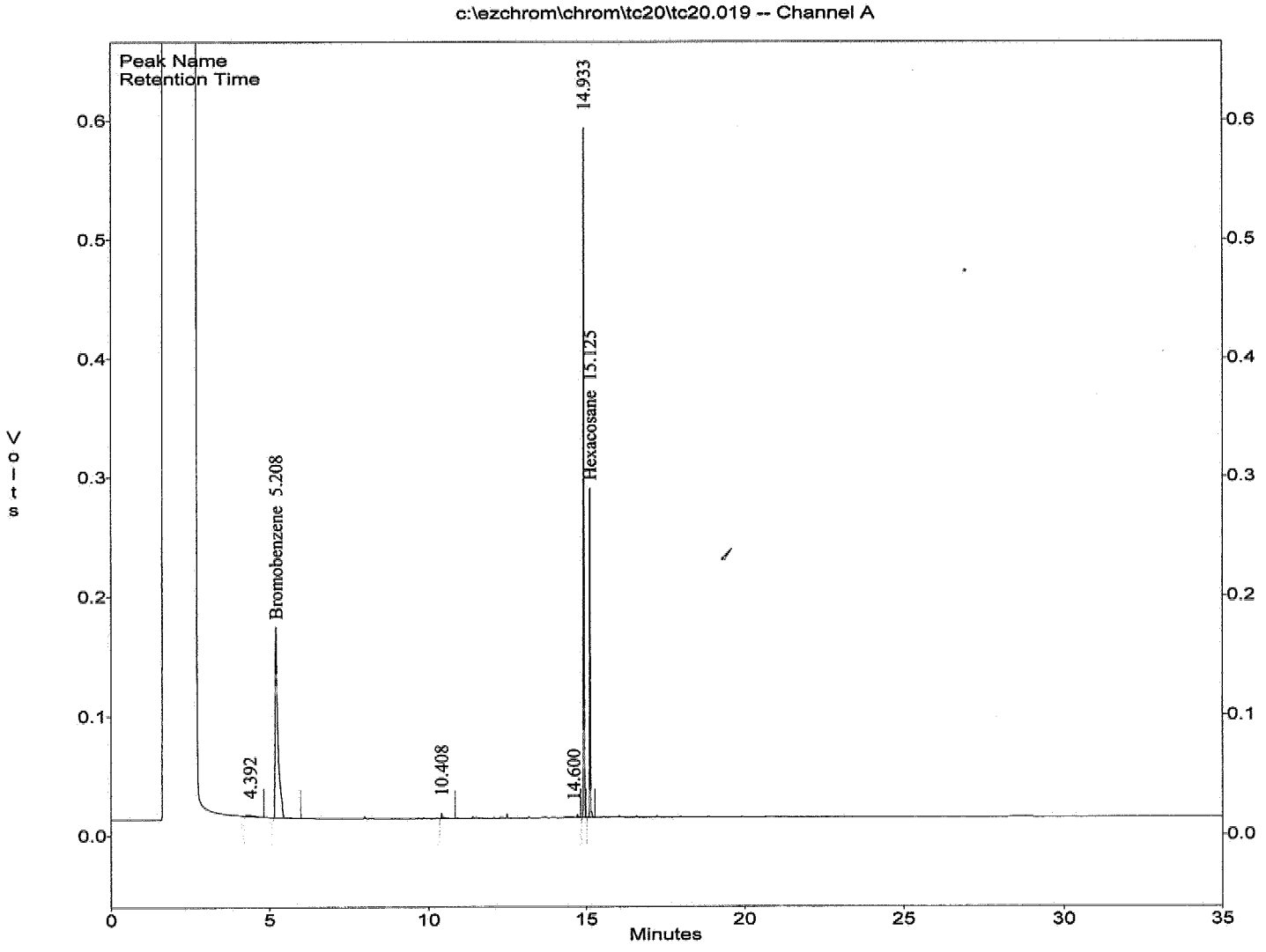
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc20\tc20.019
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : 06C119-02
Acquired : Mar 21, 2006 00:05:33
Printed : Mar 21, 2006 09:36:56
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
2	Bromobenzene	5.208	931091	14214.3	65.5
6	Hexacosane	15.125	447076	28984.5	15.4
G1	Diesel(TOTAL)		1075925	26500.7	40.6
G2	Diesel(C10-C24)		13742	26460.6	0.5
G3	Diesel(C10-C28)		1057758	26478.8	39.9
G4	Dscrt Peak(14.933)		1028373	0.0	0.0

Diesel (C10-C28) = $\frac{1057758 - 1028373}{26478.8} = 1.11$



QC SUMMARIES

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: ENSR	Date Collected:	NA
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/16/06
Batch No.	: 06C119	Date Extracted:	03/16/06 15:30
Sample ID	: MBLK1W	Date Analyzed:	03/20/06 21:18
Lab Samp ID	: DSC015WB	Dilution Factor:	1
Lab File ID	: TC20015A	Matrix	: WATER
Ext Btch ID	: DSC015W	% Moisture	: NA
Calib. Ref.	: TC20004A	Instrument ID	: GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DRO	ND	.5	.1
ORO	ND	1	.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	68	50-140
HEXACOSANE	119	70-150

RL : Reporting Limit

Parameter	H-C Range
DRO	C10-C28
ORO	C28-C38

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
BATCH NO.: 06C119
METHOD: METHOD 3520C/8015B

MATRIX: WATER % MOISTURE: NA

DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	DSC015WB	DSC015WL	DSC015WC		
LAB FILE ID:	TC20015A	TC20013A	TC20014A		
DATE EXTRACTED:	03/16/0615:30	03/16/0615:30	03/16/0615:30	DATE COLLECTED:	NA
DATE ANALYZED:	03/20/0621:18	03/20/0619:54	03/20/0620:36	DATE RECEIVED:	03/16/06
PREP. BATCH:	DSC015W	DSC015W	DSC015W		
CALIB. REF:	TC20004A	TC20004A	TC20004A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
DRO	ND	5	4.35	87	5	4.64	93	6	60-140	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
Bromobenzene	1	.723	72	1	.787	79	50-140
Hexacosane	.25	.291	117	.25	.303	121	70-150

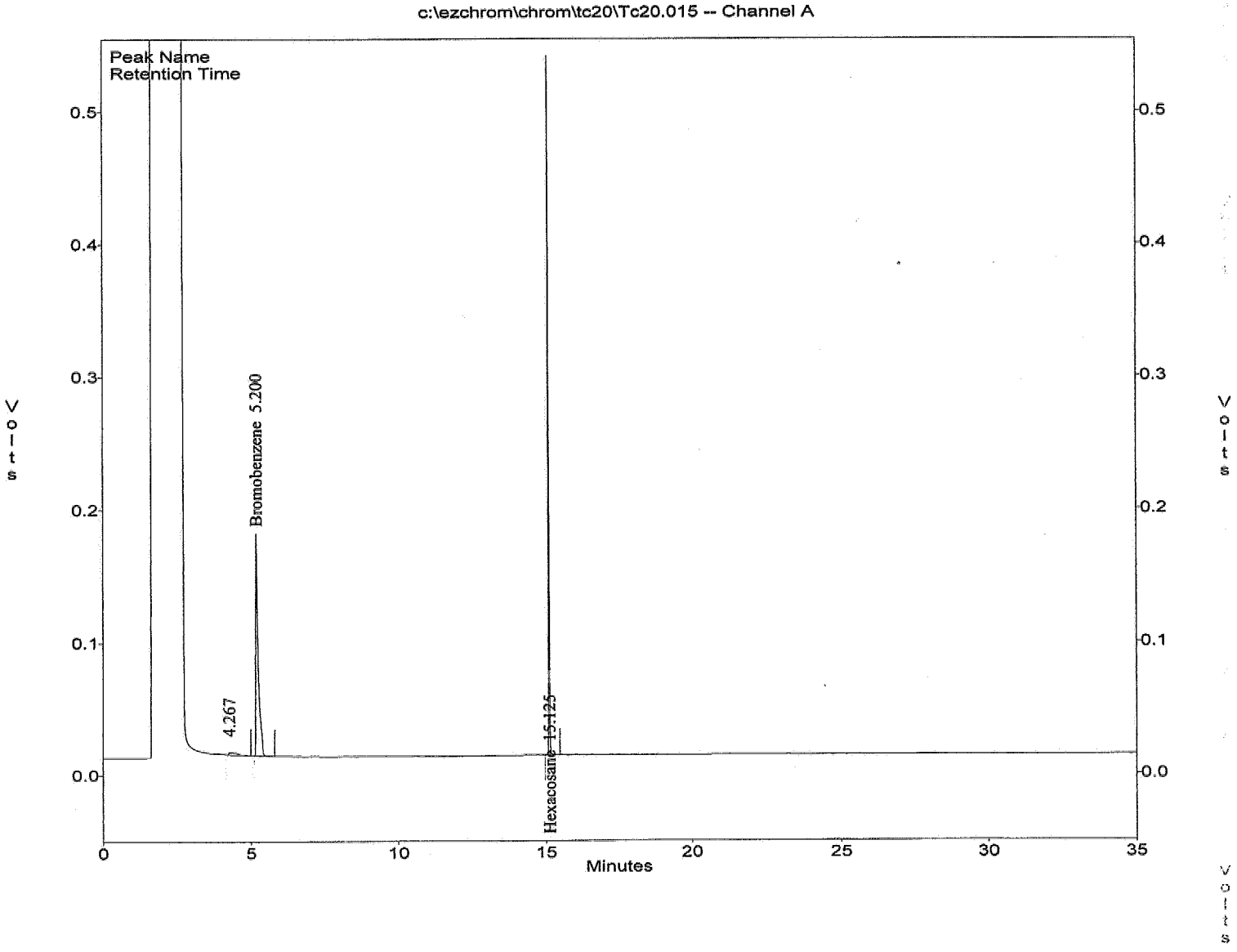
QC DATA

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc20\Tc20.015
Method : c:\ezchrom\methods\Ds50a31.met
Sample ID : DSC015WB
Acquired : Mar 20, 2006 21:18:00
Printed : Mar 20, 2006 21:53:01
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc. (ppm)
2	Bromobenzene	5.200	966496	14214.3	68.0
3	Hexacosane	15.125	863807	28984.5	29.8
G1	Diesel(TOTAL)		37193	26500.7	1.4
G2	Diesel(C10-C24)		0	26460.6	0.0
G3	Diesel(C10-C28)		0	26478.8	0.0

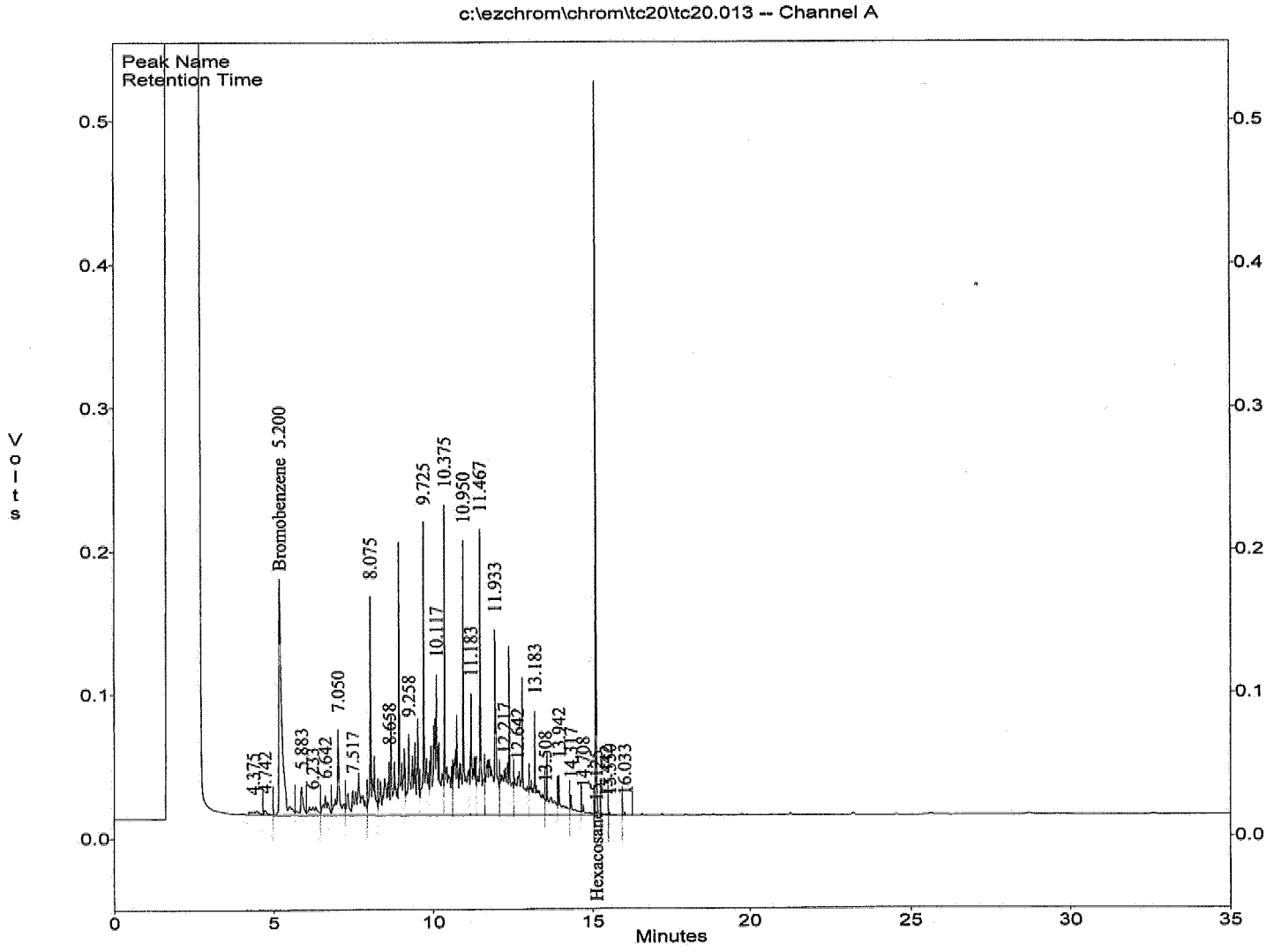


METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc20\tc20.013
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : DSC015WL
Acquired : Mar 20, 2006 19:54:07
Printed : Mar 21, 2006 09:32:44
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
3	Bromobenzene	5.200	1027297	14214.3	72.3
26	Hexacosane	15.125	844712	28984.5	29.1
G1	Diesel(TOTAL)		11707497	26500.7	441.8
G2	Diesel(C10-C24)		11459609	26460.6	433.1
G3	Diesel(C10-C28)		11513064	26478.8	434.8

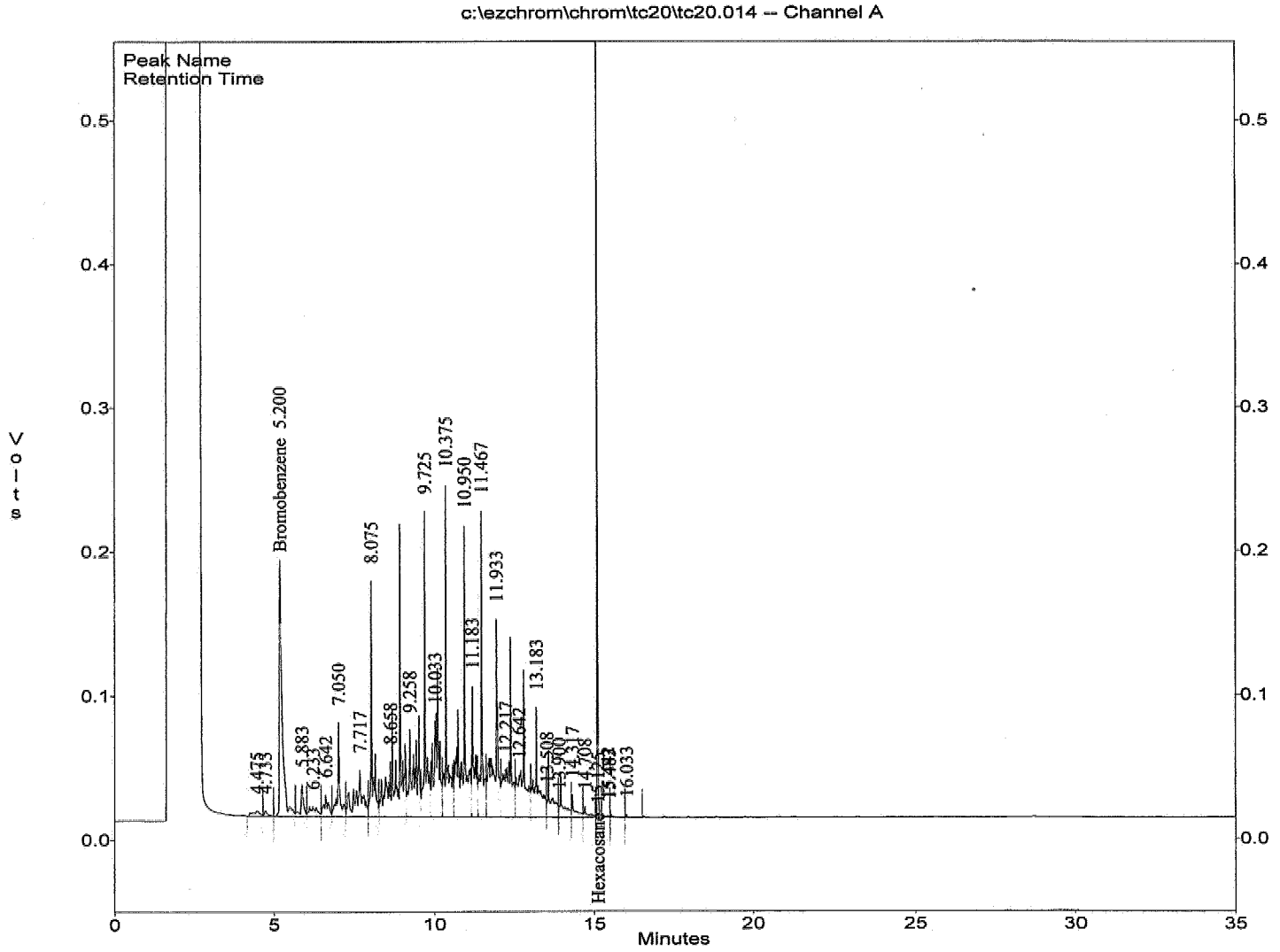


METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc20\tc20.014
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : DSC015WC
Acquired : Mar 20, 2006 20:36:05
Printed : Mar 21, 2006 09:32:58
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
3	Bromobenzene	5.200	1119283	14214.3	78.7
26	Hexacosane	15.125	878474	28984.5	30.3
G1	Diesel(TOTAL)		12495476	26500.7	471.5
G2	Diesel(C10-C24)		12215803	26460.6	461.7
G3	Diesel(C10-C28)		12273344	26478.8	463.5



INITIAL CALIBRATION

INITIAL CALIBRATION
METHOD M8015

Lab Name : EMAX Inc
Instrument ID : GCTO50
GC Column : DB-5
Column size ID : 30MX0.25MM
LFID & Datetime: TA31009A 01/31/06 19:57
LFID & Datetime: TA31010A 01/31/06 20:39
LFID & Datetime: TA31004A 01/31/06 16:26
LFID & Datetime: TA31005A 01/31/06 17:08
LFID & Datetime: TA31006A 01/31/06 17:51
LFID & Datetime: TA31007A 01/31/06 18:33
LFID & Datetime: TA31008A 01/31/06 19:15
CONC UNIT: ppm

COMPOUND	CONC X	CALIBRATION FACTORS (AREA or HEIGHT)/UNIT 1.00X	2.00X	10.00X	20.00X	100.00X	300.00X	600.00X	MEAN	%RSD
DIESEL(TOTAL)	5.00	29695	33603	21928	26105	23350	24931	25894	26500.7	15.0
DIESEL(C10-C24)	5.00	29695	33603	21896	26080	23330	24845	25775	26460.6	15.1
DIESEL(C10-C28)	5.00	29695	33603	21928	26105	23350	24872	25800	26478.8	15.0
SURROGATE	X	0.50X	1.00X	2.00X	3.00X	5.00X	7.00X	11.00X	MEAN	%RSD
BROMOBENZENE	20.00	-1	13517	14356	15142	13341	14495	14436	14214.3	4.7
HEXACOSANE	5.00	-1	29580	29371	31178	27128	28544	28106	28984.5	4.8

DS50A31.MET

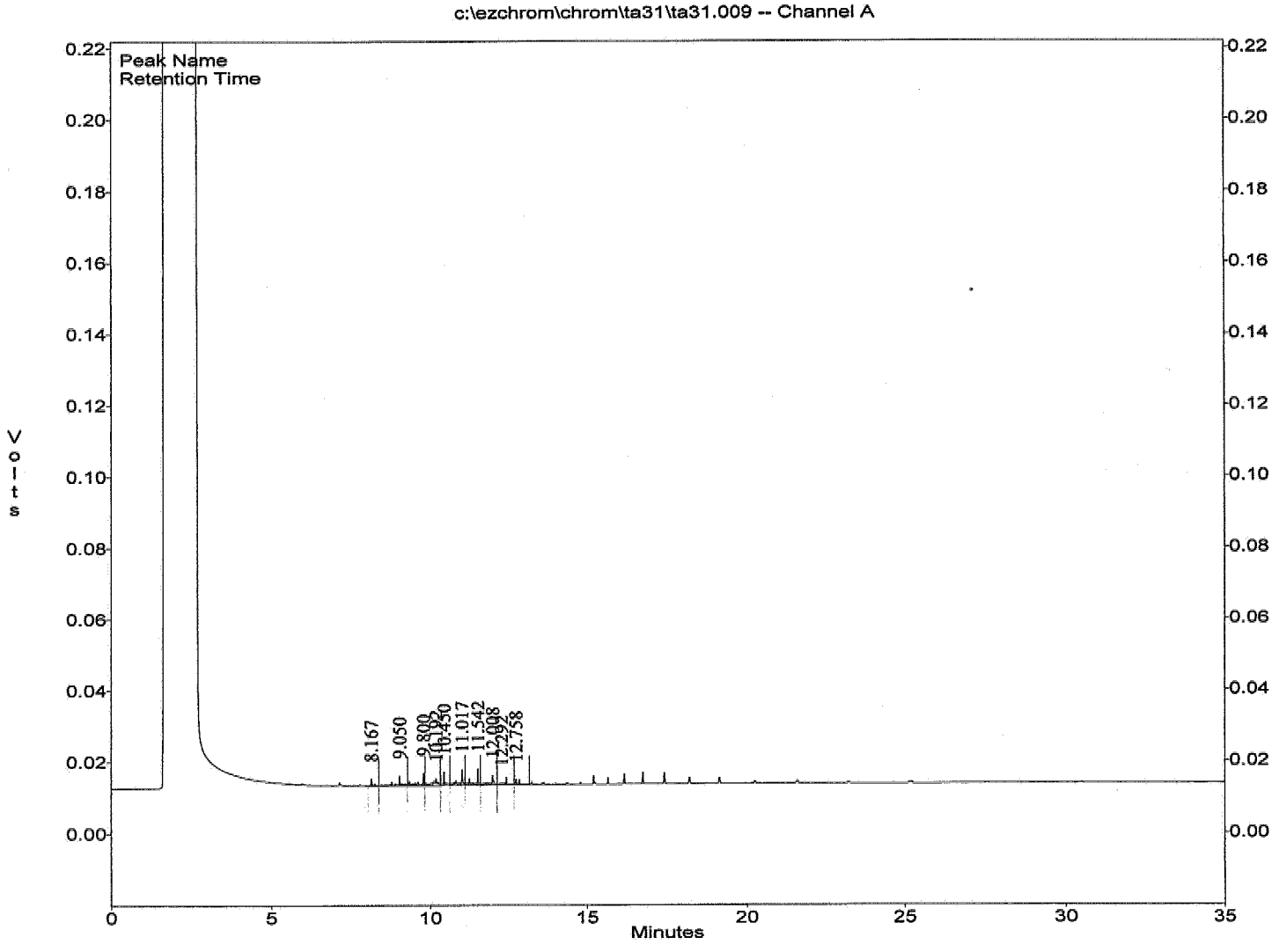
2/1/06

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.009
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : DS50A3101 5PPM
Acquired : Jan 31, 2006 19:57:35
Printed : Feb 01, 2006 09:34:38
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
--	Bromobenzene	5.283	0	0.0	0.0
--	Hexacosane	15.233	0	0.0	0.0
G1	Diesel(TOTAL)		148474	26500.7	5.0
G2	Diesel(C10-C24)		148474	26460.6	5.0
G3	Diesel(C10-C28)		148474	26478.8	5.0



02/01/06

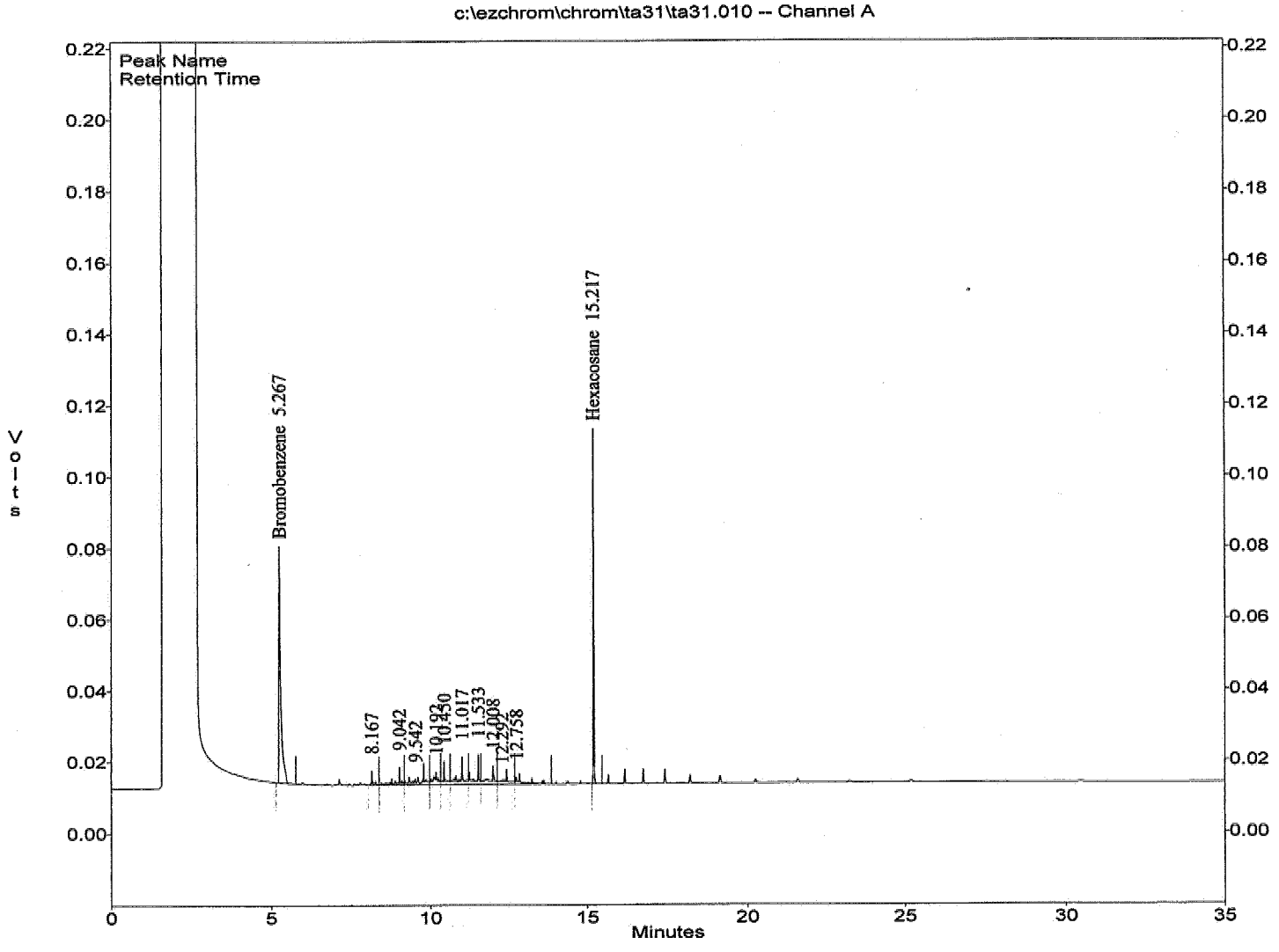
5015

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.010
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : DS50A3102 10/20/5
Acquired : Jan 31, 2006 20:39:42
Printed : Feb 01, 2006 09:34:43
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
1	Bromobenzene	5.267	270334	14214.3	20.0
12	Hexacosane	15.217	147901	28984.5	5.0
G1	Diesel(TOTAL)		336030	26500.7	10.0
G2	Diesel(C10-C24)		336030	26460.6	10.0
G3	Diesel(C10-C28)		336030	26478.8	10.0



DA 02/01/06

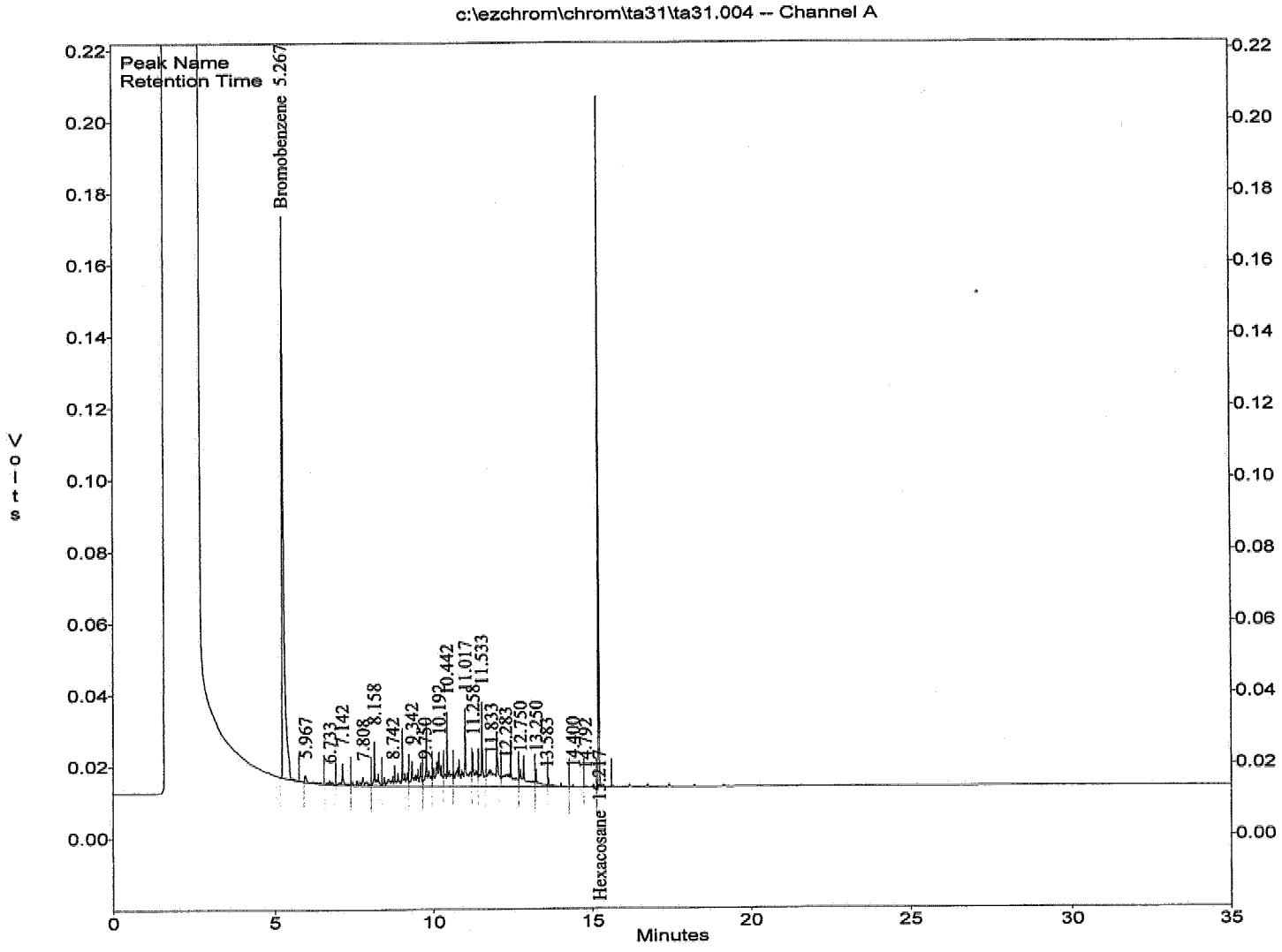
5016

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.004
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : DS50A3103 50/40/10
Acquired : Jan 31, 2006 16:26:47
Printed : Feb 01, 2006 09:34:49
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
1	Bromobenzene	5.267	574237	14214.3	40.0
22	Hexacosane	15.217	293707	28984.5	10.0
G1	Diesel(TOTAL)		1096379	26500.7	50.0
G2	Diesel(C10-C24)		1094793	26460.6	50.0
G3	Diesel(C10-C28)		1096379	26478.8	50.0



02/01/06

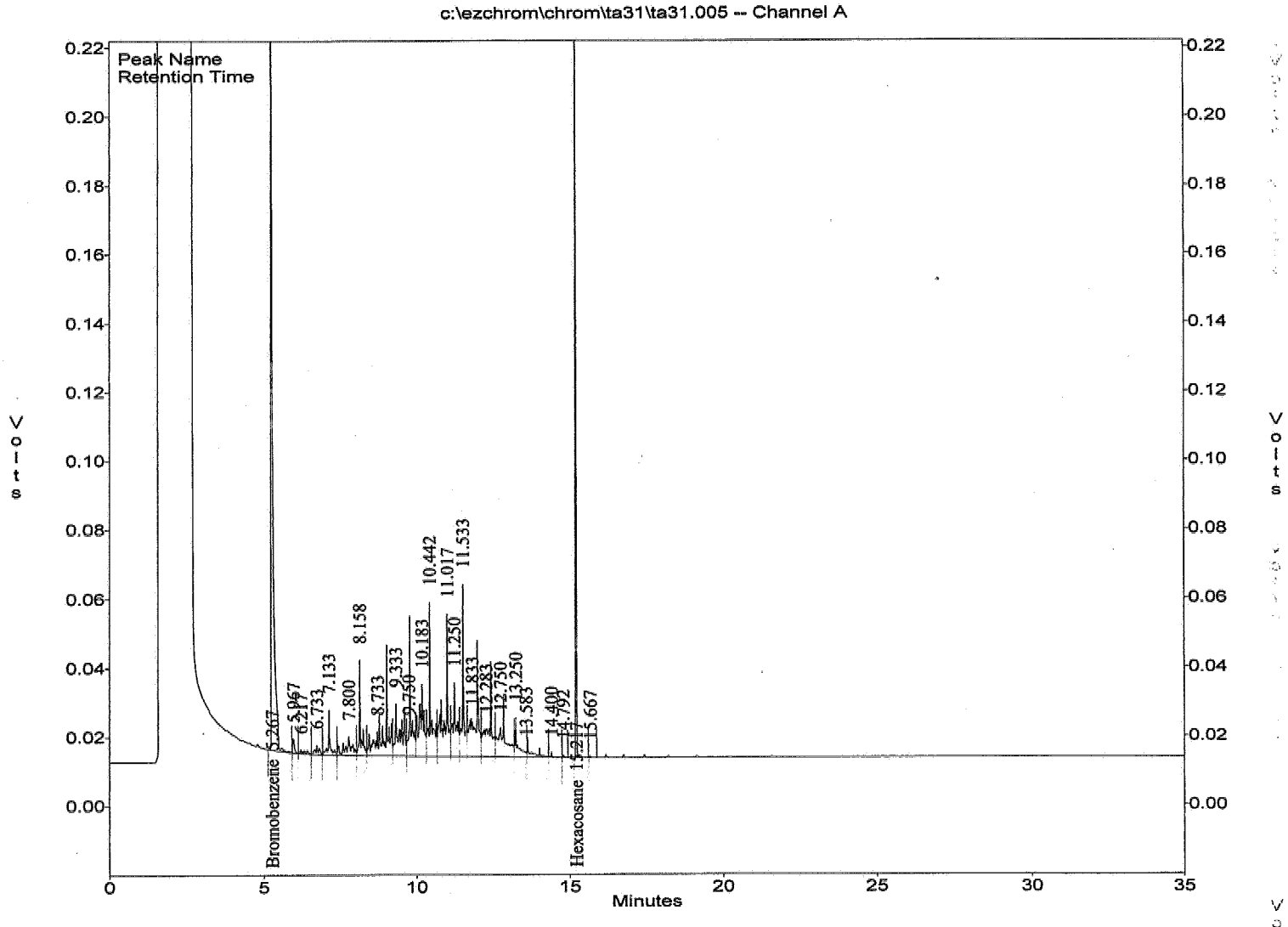
5017

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.005
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : DS50A3104 100/60/15
Acquired : Jan 31, 2006 17:08:56
Printed : Feb 01, 2006 09:35:08
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
1	Bromobenzene	5.267	908499	14214.3	60.0
23	Hexacosane	15.217	467670	28984.5	15.0
G1	Diesel(TOTAL)		2610524	26500.7	100.0
G2	Diesel(C10-C24)		2608042	26460.6	100.0
G3	Diesel(C10-C28)		2610524	26478.8	100.0



02/01/06

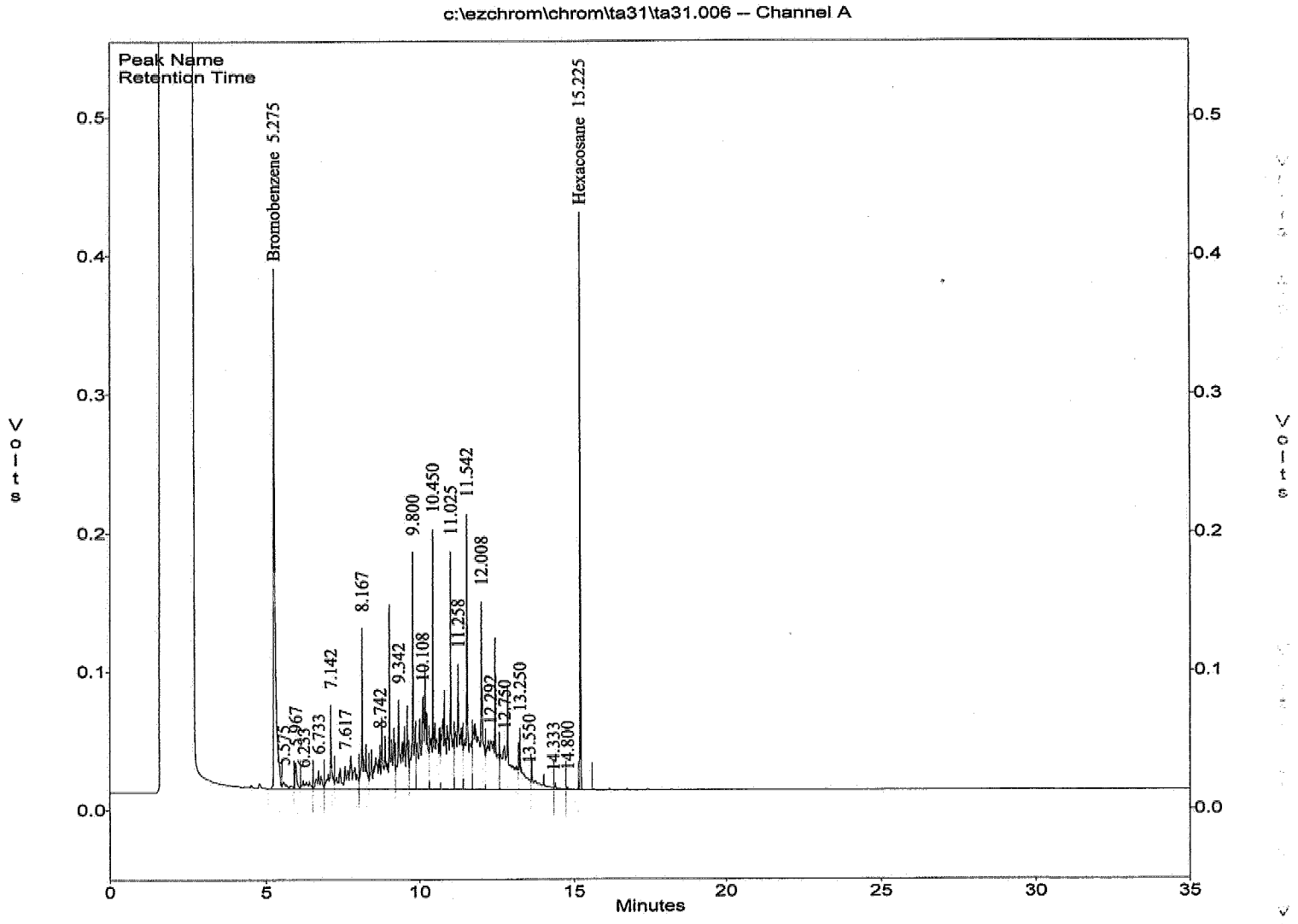
5018

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.006
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : DS50A3105 500/100/2
Acquired : Jan 31, 2006 17:51:21
Printed : Feb 01, 2006 09:35:17
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
1	Bromobenzene	5.275	1334115	14214.3	100.0
24	Hexacosane	15.225	678205	28984.5	25.0
G1	Diesel(TOTAL)		11674800	26500.7	500.0
G2	Diesel(C10-C24)		11665009	26460.6	500.0
G3	Diesel(C10-C28)		11674800	26478.8	500.0



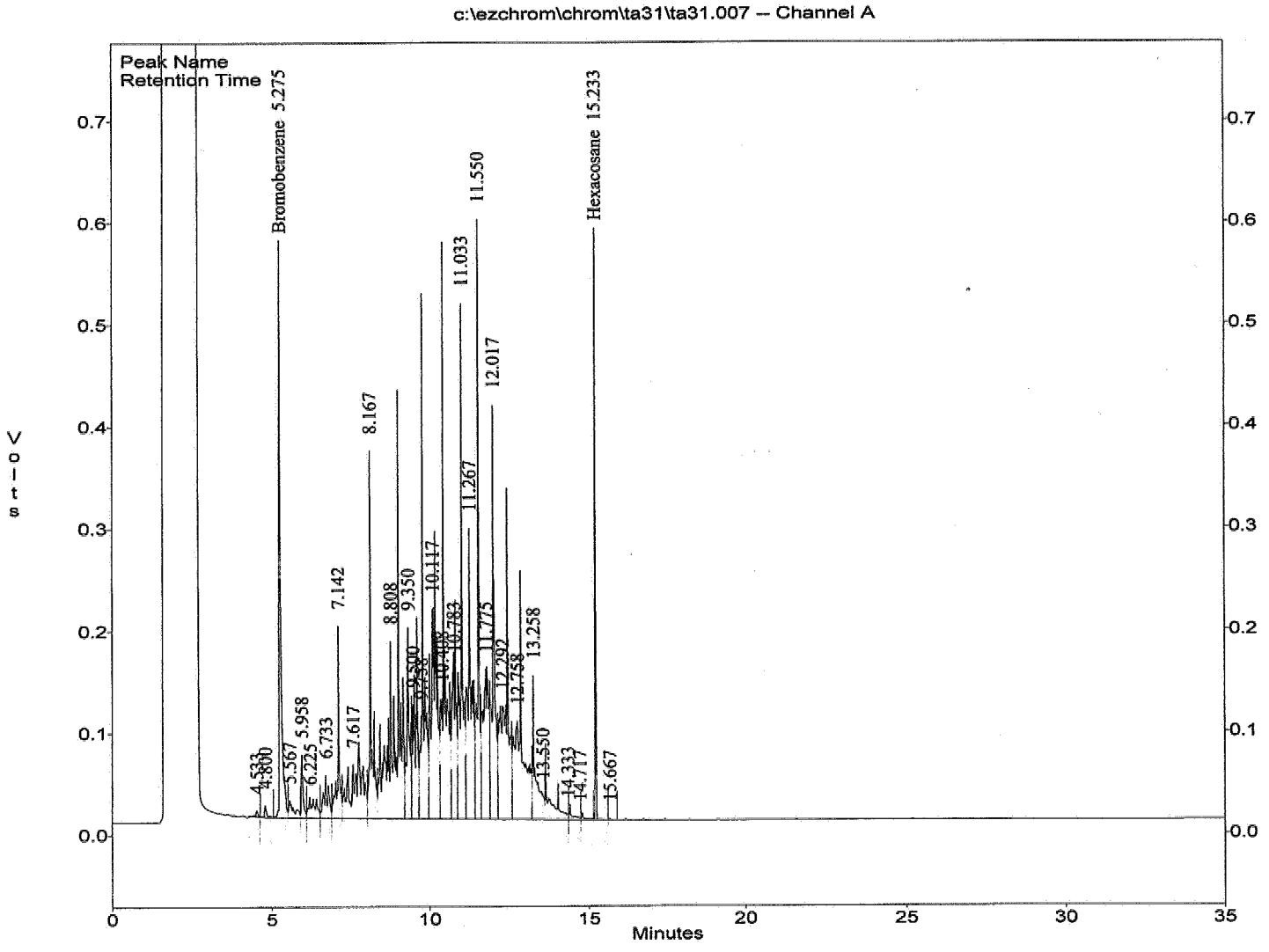
02/01/06
5019

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.007
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : DS50A3106 1500/140/
Acquired : Jan 31, 2006 18:33:25
Printed : Feb 01, 2006 09:35:43
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
3	Bromobenzene	5.275	2029250	14214.3	140.0
29	Hexacosane	15.233	999027	28984.5	35.0
G1	Diesel(TOTAL)		37395864	26500.7	1500.0
G2	Diesel(C10-C24)		37267404	26460.6	1500.0
G3	Diesel(C10-C28)		37307612	26478.8	1500.0



AA 02/01/06

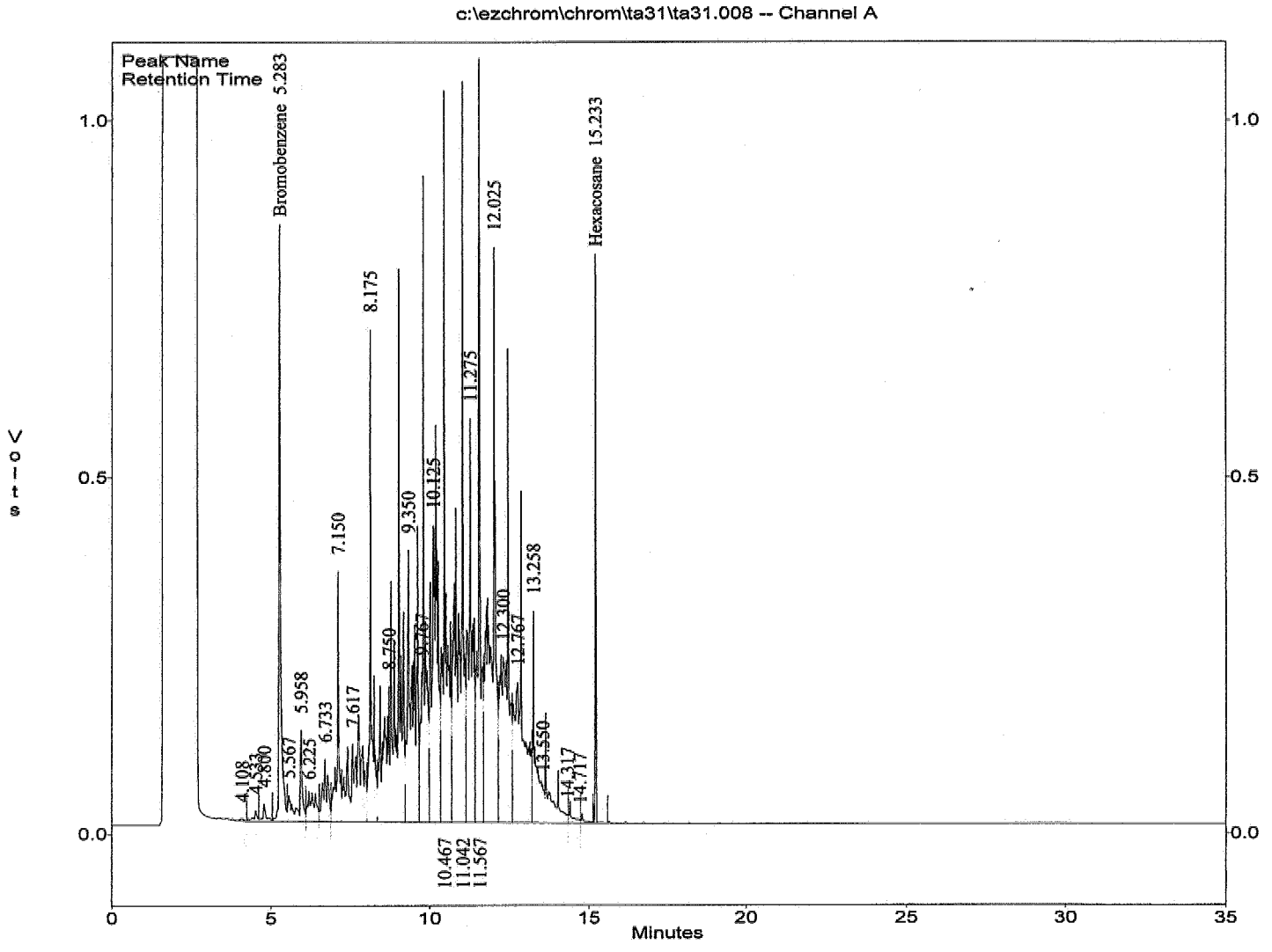
5020

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.008
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : DS50A3107 3000/220/
Acquired : Jan 31, 2006 19:15:30
Printed : Feb 01, 2006 09:35:51
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
4	Bromobenzene	5.283	3175897	14214.3	220.0
27	Hexacosane	15.233	1545839	28984.5	55.0
G1	Diesel(TOTAL)		77682664	26500.7	3000.0
G2	Diesel(C10-C24)		77324912	26460.6	3000.0
G3	Diesel(C10-C28)		77399448	26478.8	3000.0



DA 2/10/06

5021

INITIAL CALIBRATION
METHOD M8015

Lab Name : EMAX Inc
Instrument ID : GCTO50
GC Column : DB-5
Column size ID : 30MX0.25MM
LFID & Datetime: TA05019A 01/05/06 23:55
LFID & Datetime: TA05020A 01/06/06 00:37
LFID & Datetime: TA05021A 01/06/06 01:19
LFID & Datetime: TA05022A 01/06/06 02:01
LFID & Datetime: TA05023A 01/06/06 02:43
LFID & Datetime: TA05024A 01/06/06 03:25
LFID & Datetime: TA05025A 01/06/06 04:07
CONC UNIT: ppm

COMPOUND	CONC X	CALIBRATION FACTORS (AREA or HEIGHT)/UNIT 1.00X	2.00X	5.00X	50.00X	100.00X	150.00X	300.00X	MEAN	%RSD
JP5	10.00	19089	21129	20033	24716	24172	25573	26612	23046.2	12.7
5W30	10.00	33589	31968	34659	32099	30917	30603	31346	32168.8	4.6

J550A05M.MET

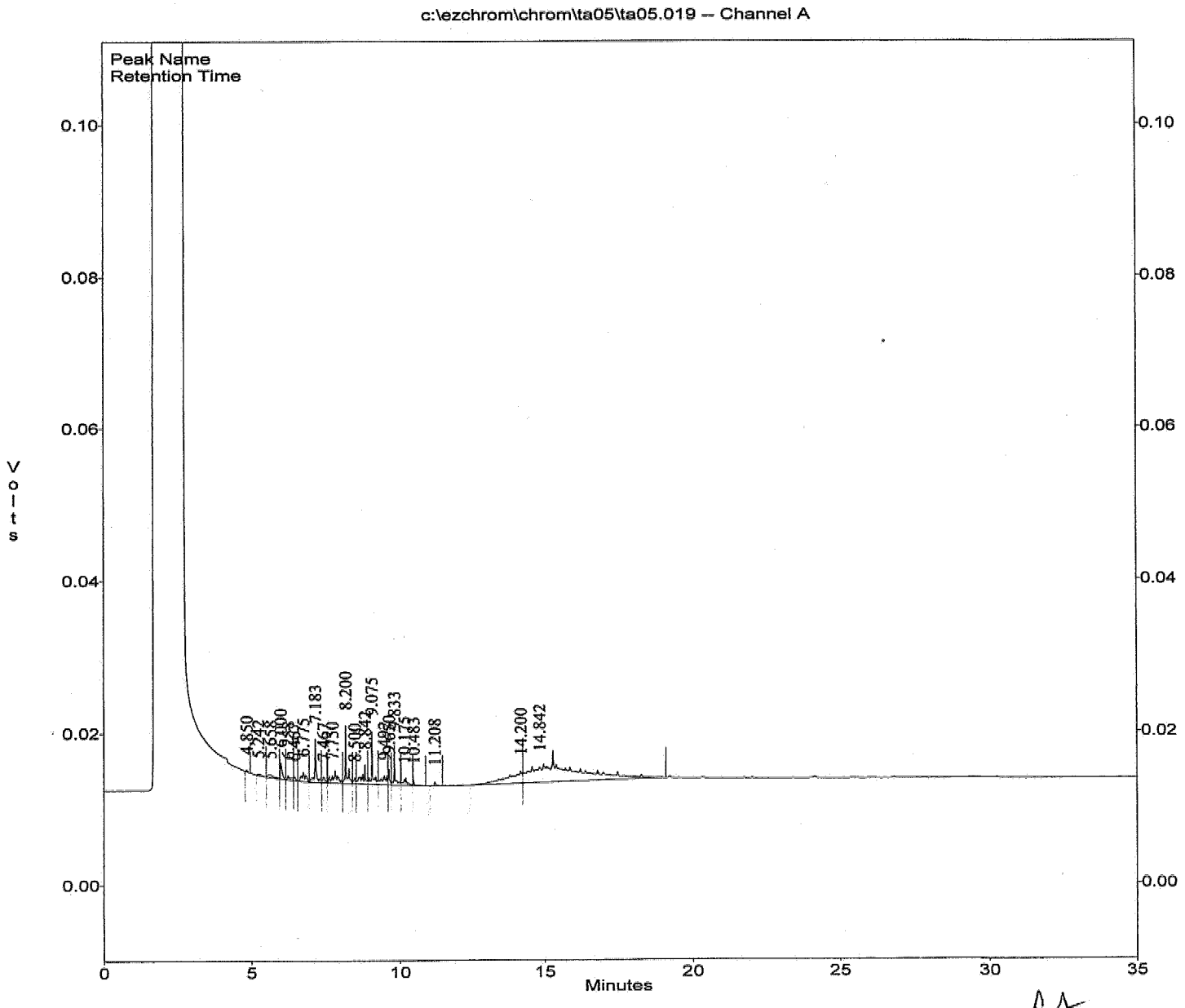
1/9/06

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta05\ta05.019 ✓
Method : c:\ezchrom\methods\j550a05m.met
Sample ID : J550A05M01 10PPM
Acquired : Jan 05, 2006 23:55:57 ✓
Printed : Jan 06, 2006 09:55:49
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
G1	JP5		190889 ✓	23046.2	10.0
G2	5W30		335894 ✓	32168.8	10.0



1/9/06

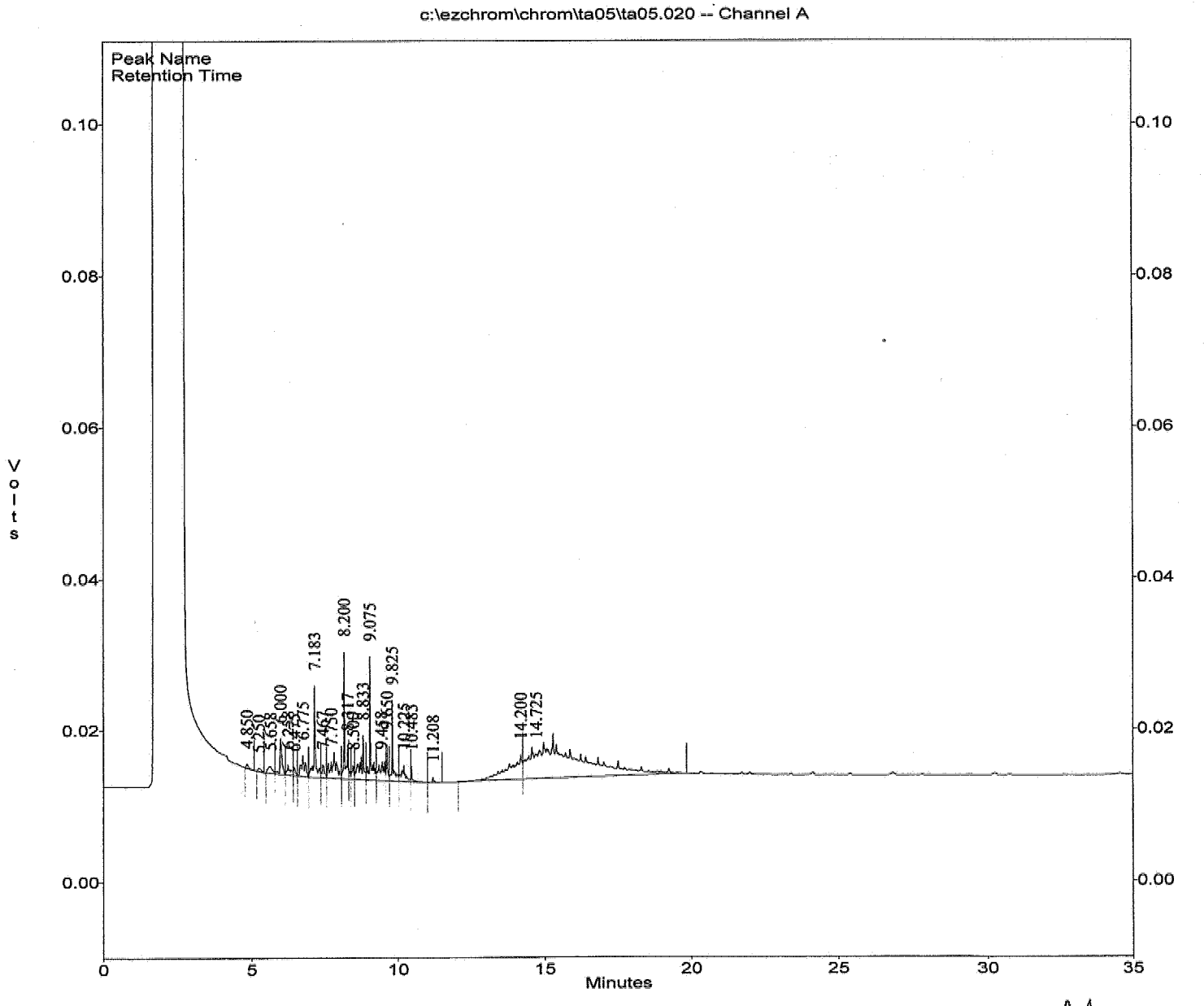
5023

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta05\ta05.020
Method : c:\ezchrom\methods\j550a05m.met
Sample ID : J550A05M02 20PPM
Acquired : Jan 06, 2006 00:37:56
Printed : Jan 06, 2006 09:55:55
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
G1	JP5		422586	23046.2	20.0
G2	5W30		639352	32168.8	20.0



1/9/06

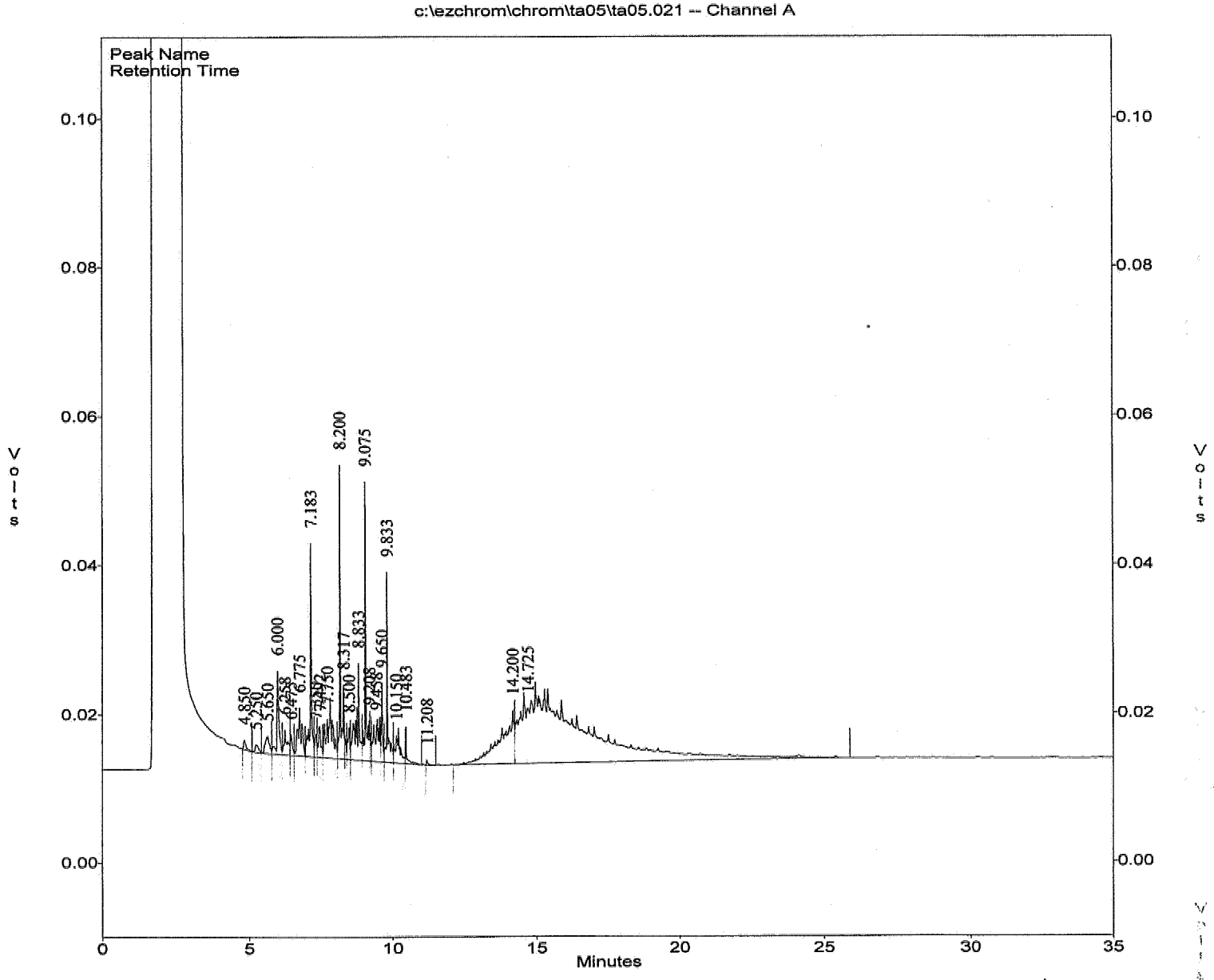
5024

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta05\ta05.021
Method : c:\ezchrom\methods\j550a05m.met
Sample ID : J550A05M03 50PPM
Acquired : Jan 06, 2006 01:19:54
Printed : Jan 06, 2006 09:56:08
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
G1	JP5		1001658	23046.2	50.0
G2	5W30		1732935	32168.8	50.0



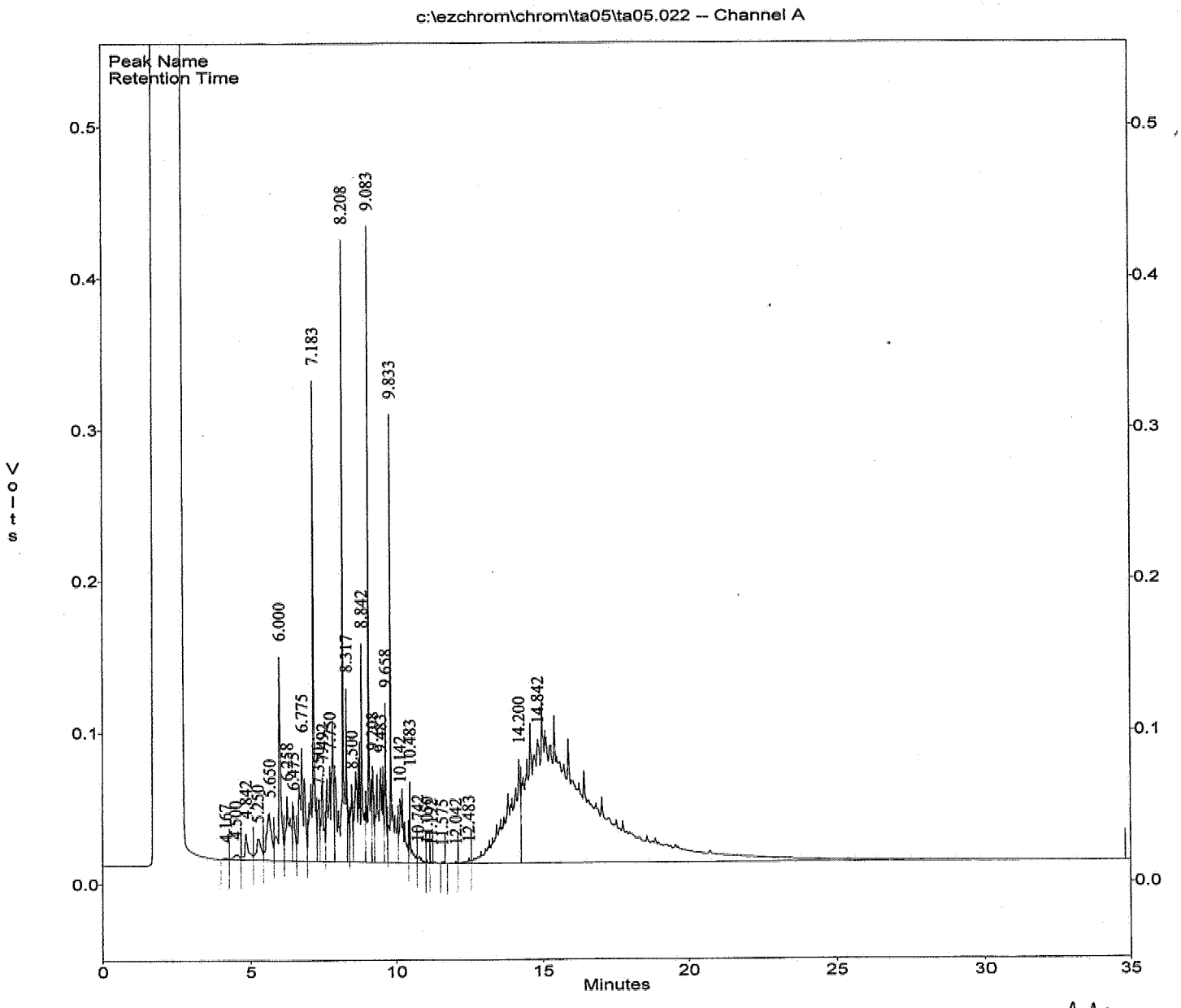
5825 9/06

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta05\ta05.022
Method : c:\ezchrom\methods\j550a05m.met
Sample ID : J550A05M04 500PPM
Acquired : Jan 06, 2006 02:01:52
Printed : Jan 06, 2006 09:56:41
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
G1	JP5		12357981	23046.2	500.0
G2	5W30		16049524	32168.8	500.0



1/9/06

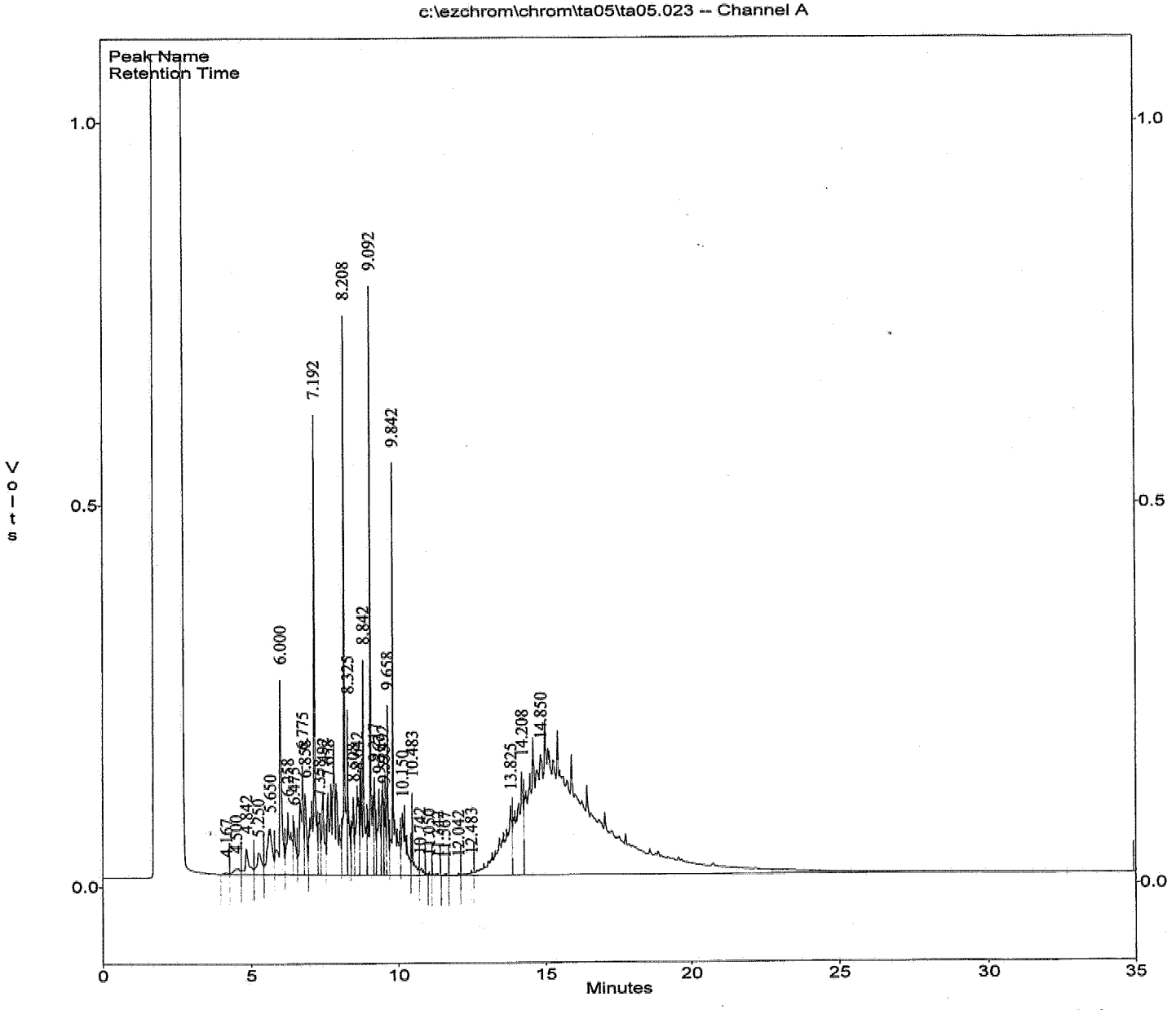
5826

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta05\ta05.023
Method : c:\ezchrom\methods\j550a05m.met
Sample ID : J550A05M05 1000PPM
Acquired : Jan 06, 2006 02:43:50
Printed : Jan 06, 2006 09:57:19
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
G1	JP5		24171588	23046.2	1000.0
G2	5W30		30917232	32168.8	1000.0



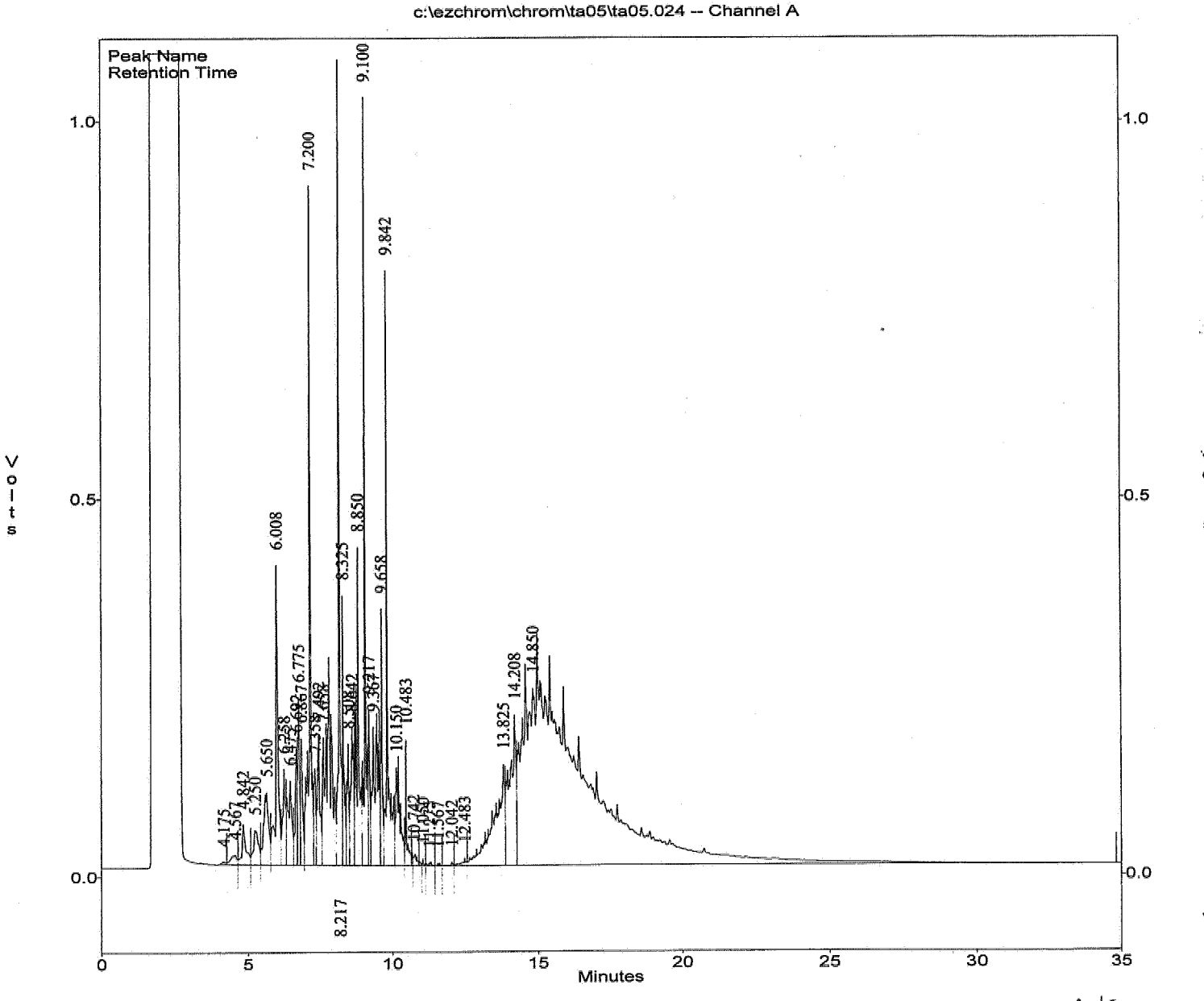
5827

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta05\ta05.024
Method : c:\ezchrom\methods\j550a05m.met
Sample ID : J550A05M06 1500PPM
Acquired : Jan 06, 2006 03:25:48
Printed : Jan 06, 2006 09:57:24
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
G1	JP5		38358784	23046.2	1500.0
G2	5W30		45905100	32168.8	1500.0



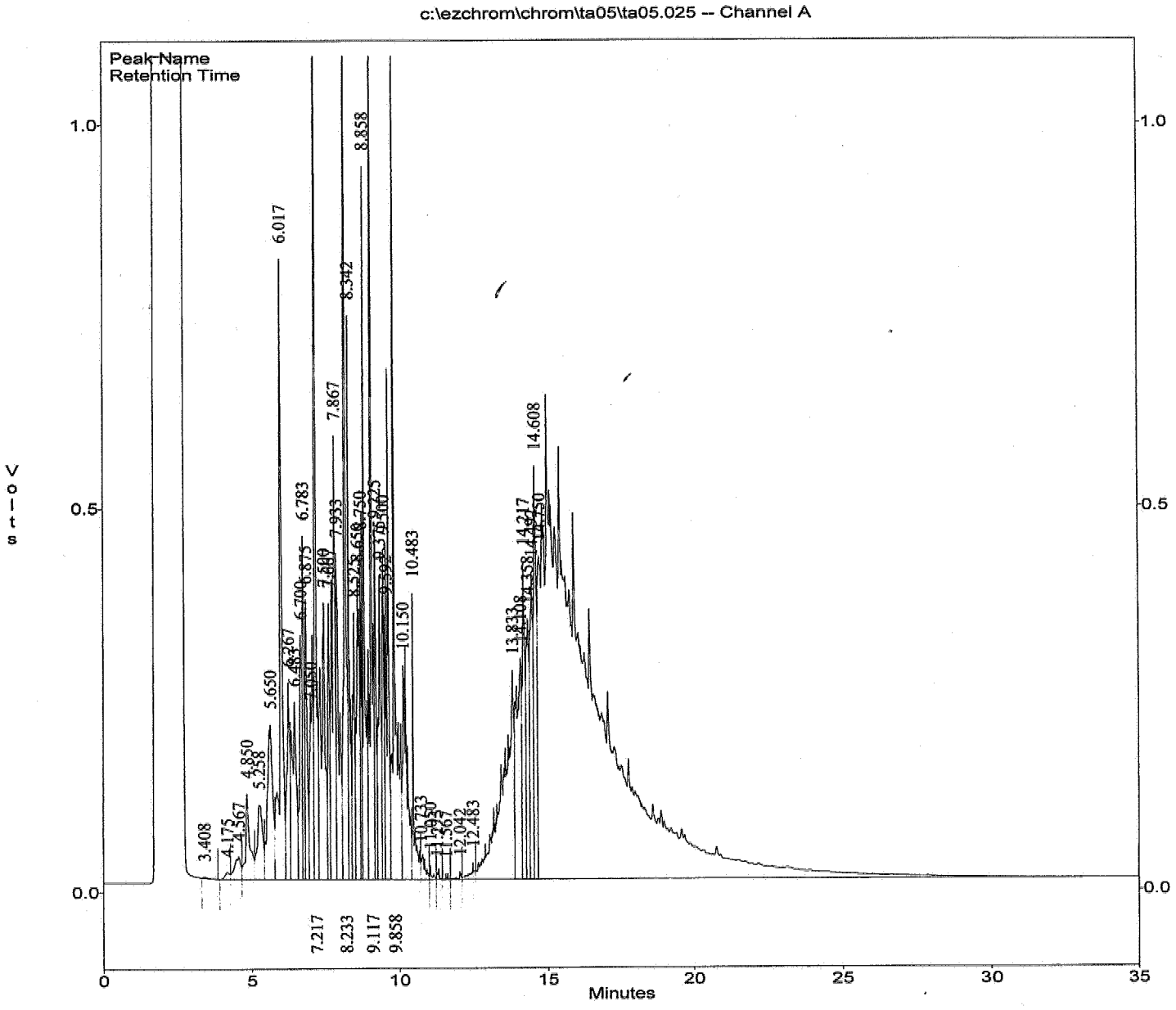
5928

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta05\ta05.025
Method : c:\ezchrom\methods\j550a05m.met
Sample ID : J550A05M07 3000PPM
Acquired : Jan 06, 2006 04:07:45
Printed : Jan 06, 2006 09:57:28
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
G1	JP5		79836656	23046.2	3000.0
G2	5W30		94039104	32168.8	3000.0



RA 9/06
5029

SECOND SOURCE

INITIAL CALIBRATION VERIFICATION
METHOD M8015

Lab Name : EMAX
Instrument ID : GCTO50
GC Columm : DB-5
Column size ID : 30MX0.25MM
Mid Conc Init LFID & Datetime: TA31006A 01/31/2006 17:51
Conc Cont LFID & Datetime: TA31011A 01/31/2006 21:21
CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
DIESEL(TOTAL)	0.000	0.000	0.000	500.0	26500.7	13255810	500.21	0		15
DIESEL(C10-C24)	0.000	0.000	0.000	500.0	26460.6	13131692	496.27	-1		15
DIESEL(C10-C28)	0.000	0.000	0.000	500.0	26478.8	13174570	497.55	-0		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
BROMOBENZENE	5.275	5.188	5.362	100.0	14214.3	1337667	94.11	-6		15
HEXACOSANE	15.225	14.892	15.558	25.0	28984.5	687118	23.71	-5		15

DS50A31.MET

RA
02/01/06

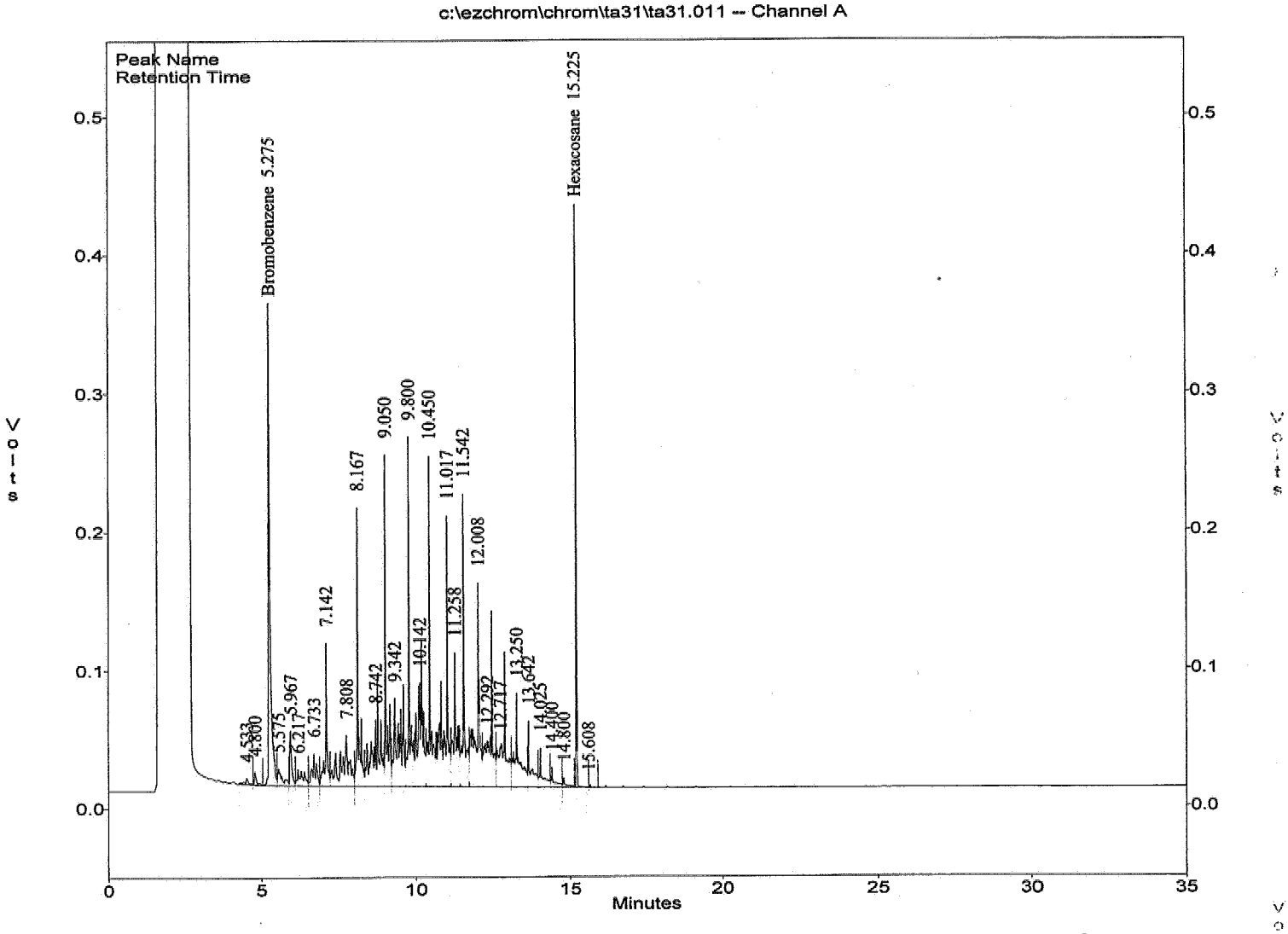
5831

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.011
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : IDS50A3101 500PPM
Acquired : Jan 31, 2006 21:21:44
Printed : Feb 01, 2006 09:36:17
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
3	Bromobenzene	5.275	1337667	14214.3	94.1
28	Hexacosane	15.225	687118	28984.5	23.7
G1	Diesel(TOTAL)		13255810	26500.7	500.2
G2	Diesel(C10-C24)		13131692	26460.6	496.3
G3	Diesel(C10-C28)		13174570	26478.8	497.6



02/01/06

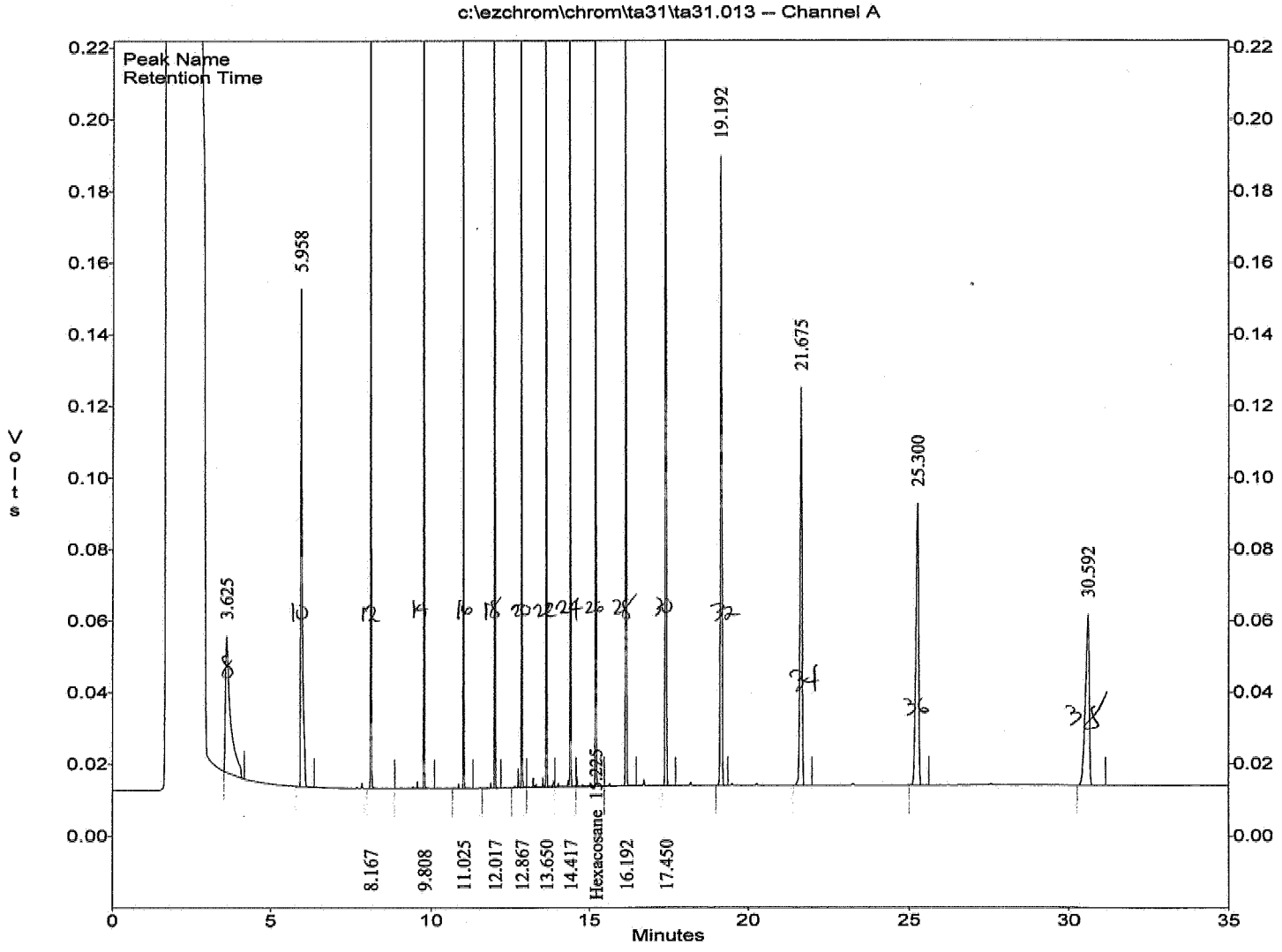
5932

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.013
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : HC-CHAIN
Acquired : Jan 31, 2006 22:45:44
Printed : Feb 01, 2006 09:38:59
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
--	Bromobenzene	5.283	0	0.0	0.0
10	Hexacosane	15.225	612551	28984.5	21.1
G1	Diesel(TOTAL)		7808933	26500.7	294.7
G2	Diesel(C10-C24)		4312145	26460.6	163.0
G3	Diesel(C10-C28)		4904687	26478.8	185.2



02/01/06

INITIAL CALIBRATION VERIFICATION
METHOD M8015

Lab Name : EMAX
Instrument ID : GCTO5O
GC Columm : DB-5
Column size ID : 30MXO.25MM
Mid Conc Init LFID & Datetime: TA05022A 01/06/2006 02:01
Conc Cont LFID & Datetime: TA05026A 01/06/2006 04:49
CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
JP5	0.000	0.000	0.000	500.0	23046.2	11649619	505.49	1		15
5W30	0.000	0.000	0.000	500.0	32168.8	16021303	498.04	-0		15

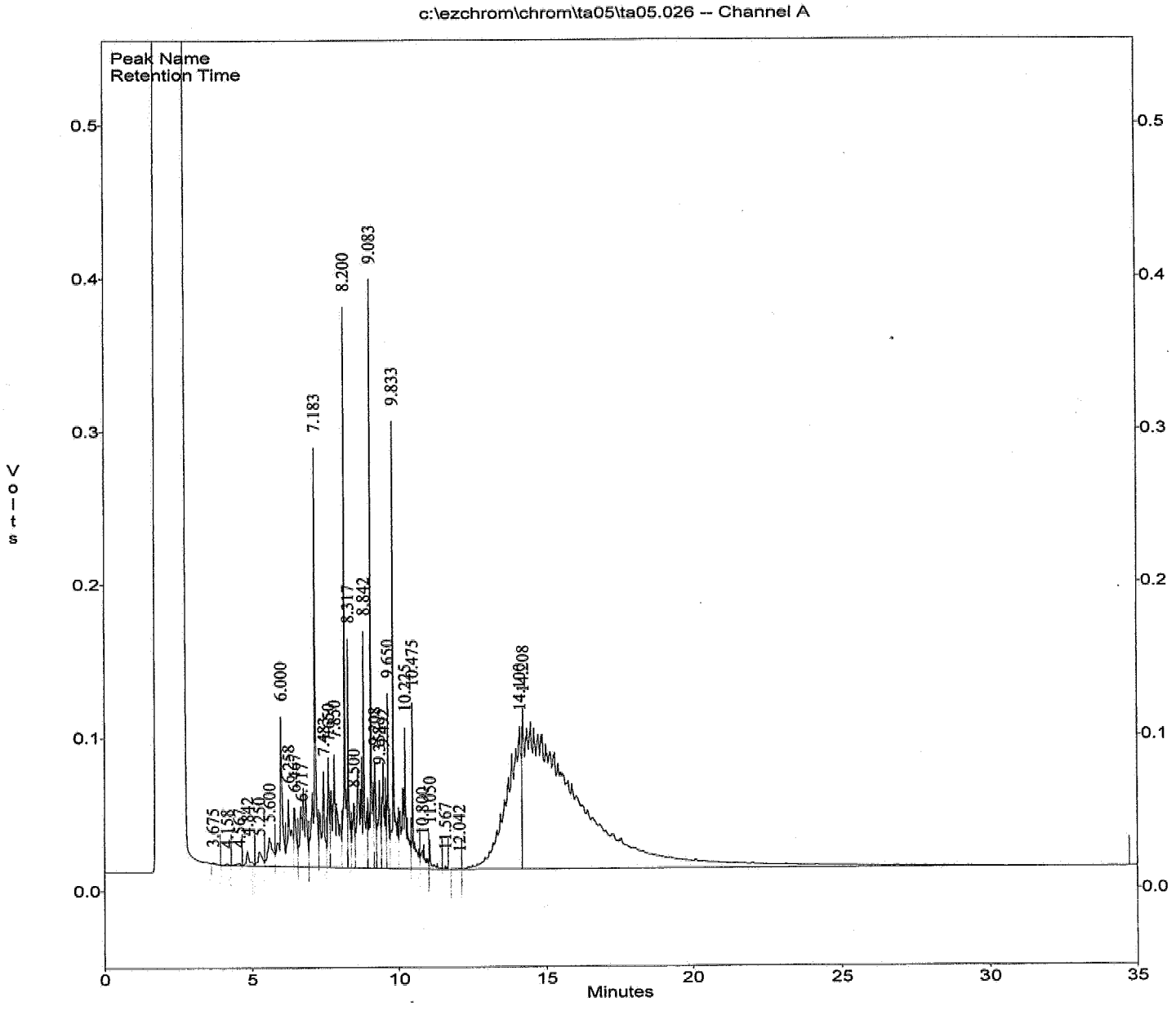
J55OA05M.MET

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta05\ta05.026
Method : c:\ezchrom\methods\j550a05m.met
Sample ID : IJ550A05M01 500PPM
Acquired : Jan 06, 2006 04:49:39
Printed : Jan 06, 2006 09:57:56
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
G1	JP5		11649619	23046.2	505.5
G2	5W30		16021303	32168.8	498.0

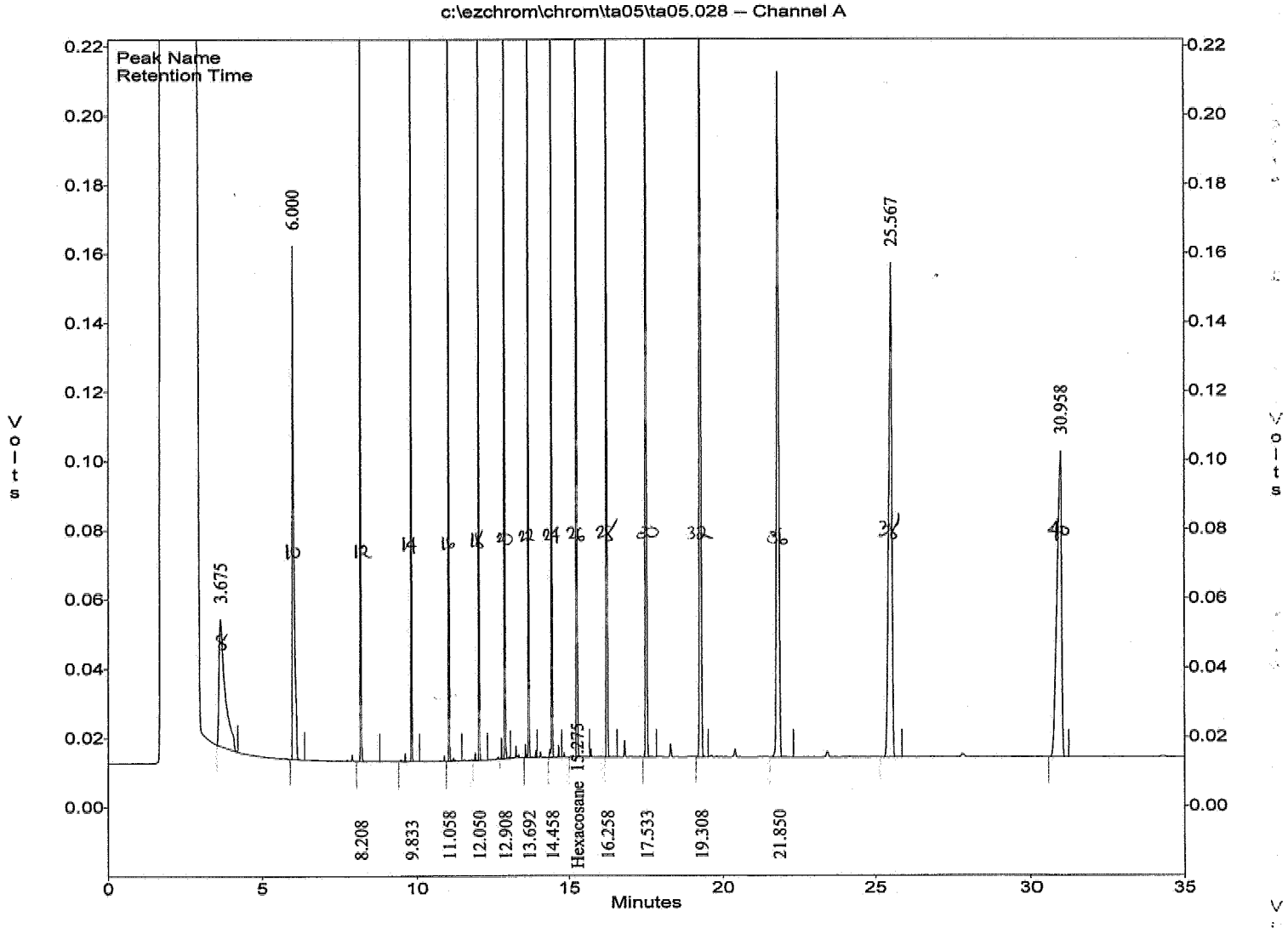


METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta05\ta05.028
Method : c:\ezchrom\methods\ds50k28.met
Sample ID : HC-CHAIN
Acquired : Jan 06, 2006 06:13:28
Printed : Jan 06, 2006 09:49:23
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
--	Bromobenzene	5.350	0	0.0	0.0
10	Hexacosane	15.275	785899	31441.2	25.0
G1	Diesel(TOTAL)		10840643	25617.3	423.2
G2	Diesel(C10-C24)		5027696	25569.5	196.6
G3	Diesel(C10-C28)		5789143	25586.1	226.3



DAILY CALIBRATION

CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
Instrument ID : GCTO50
GC Column : DB-5
Column size ID : 30MX0.25MM
Mid Conc Init LFID & Datetime: TA31006A 01/31/2006 17:51
Conc Cont LFID & Datetime: TC20004A 03/20/2006 13:35
CONC UNIT : ppm

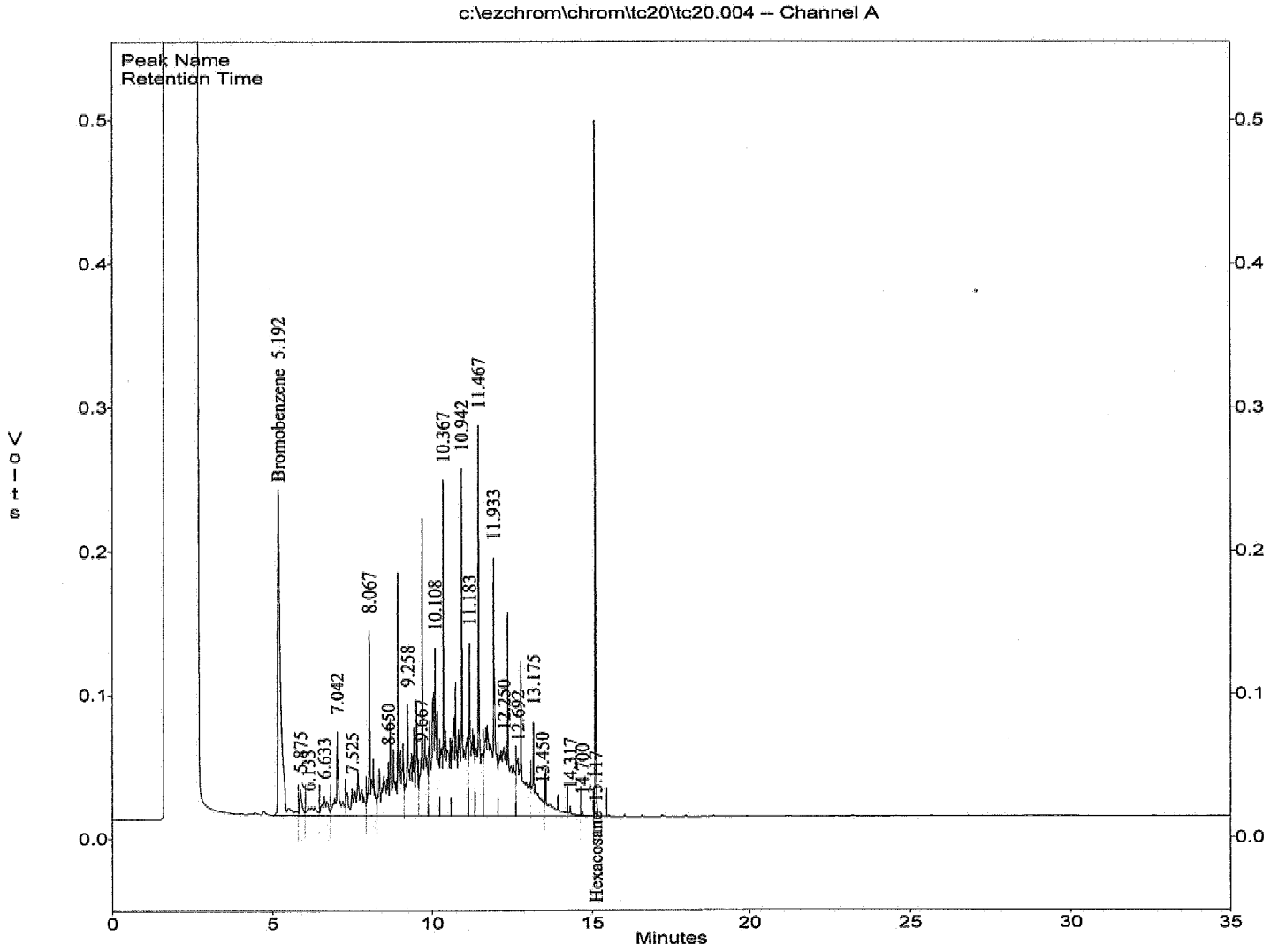
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
DIESEL(TOTAL)	0.000	0.000	0.000	500.0	26500.7	15223950	574.47	15		15
DIESEL(C10-C24)	0.000	0.000	0.000	500.0	26460.6	15114713	571.22	14		15
DIESEL(C10-C28)	0.000	0.000	0.000	500.0	26478.8	15129331	571.38	14		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
BROMOBENZENE	5.192	5.105	5.279	100.0	14214.3	1369935	96.38	-4		15
HEXACOSANE	15.117	14.784	15.450	25.0	28984.5	822851	28.39	14		15

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc20\tc20.004
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : CDS50A31536 D500
Acquired : Mar 20, 2006 13:35:44
Printed : Mar 21, 2006 09:29:23
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
1	Bromobenzene	5.192	1369935	14214.3	96.4
23	Hexacosane	15.117	822851	28984.5	28.4
G1	Diesel(TOTAL)		15223950	26500.7	574.5
G2	Diesel(C10-C24)		15114713	26460.6	571.2
G3	Diesel(C10-C28)		15129331	26478.8	571.4



CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
Instrument ID : GCTO50
GC Column : DB-5
Column size ID : 30MX0.25MM
Mid Conc Init LFID & Datetime: TA05022A 01/06/2006 02:01
Conc Cont LFID & Datetime: TC20005A 03/20/2006 14:17
CONC UNIT : ppm

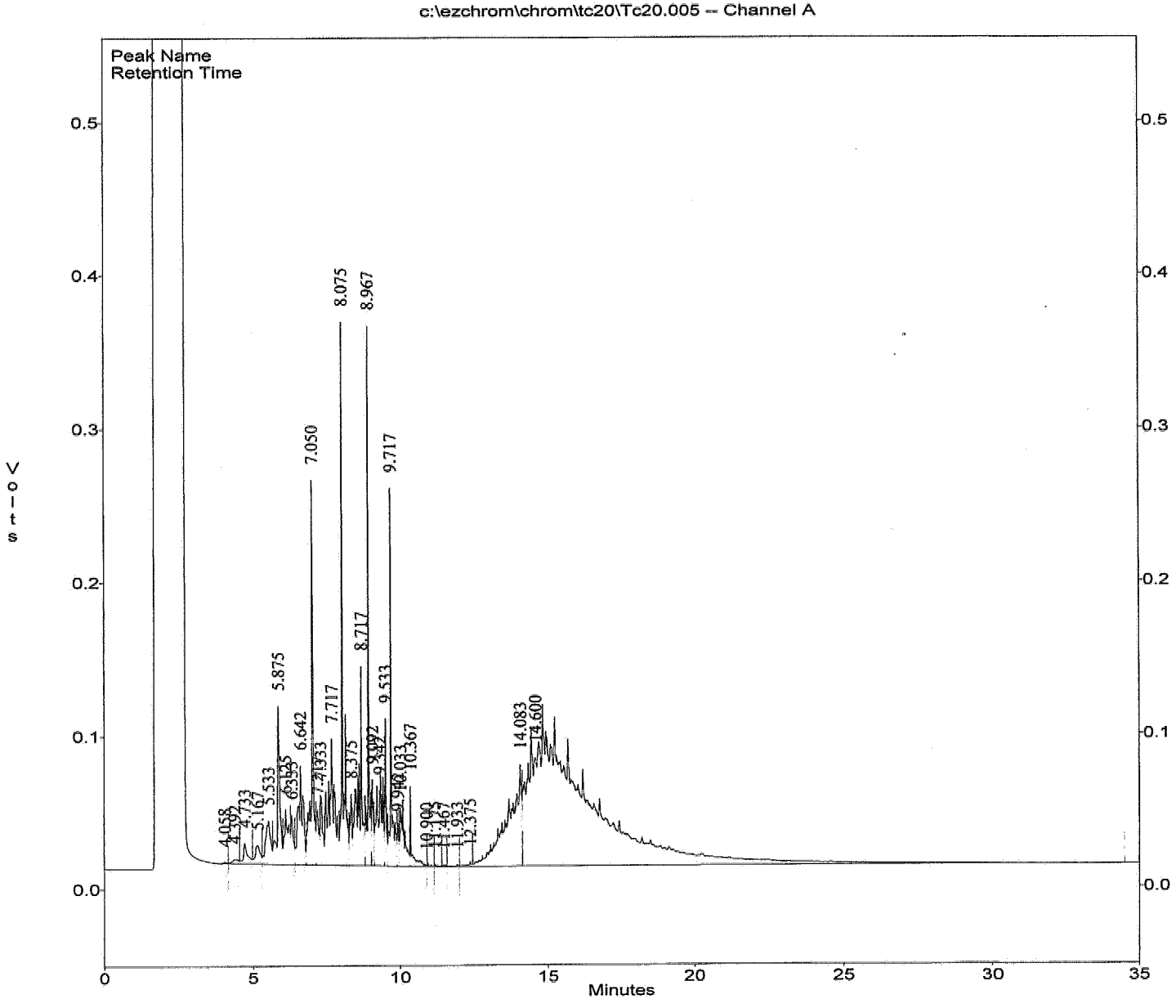
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
JP5	0.000	0.000	0.000	500.0	23046.2	11153328	483.95	-3		15
5W30	0.000	0.000	0.000	500.0	32168.8	15745428	489.46	-2		15

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc20\Tc20.005
Method : c:\ezchrom\methods\J550a05m.met
Sample ID : CJ550A05M537 JP5/MO
Acquired : Mar 20, 2006 14:17:43
Printed : Mar 20, 2006 14:52:44
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
G1	JP5		11153328	23046.2	484.0
G2	5W30		15745428	32168.8	489.5



CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
Instrument ID : GCTO50
GC Column : DB-5
Column size ID : 30MX0.25MM
Mid Conc Init LFID & Datetime: TA31006A 01/31/2006 17:51
Conc Cont LFID & Datetime: TC20017A 03/20/2006 22:41
CONC UNIT : ppm

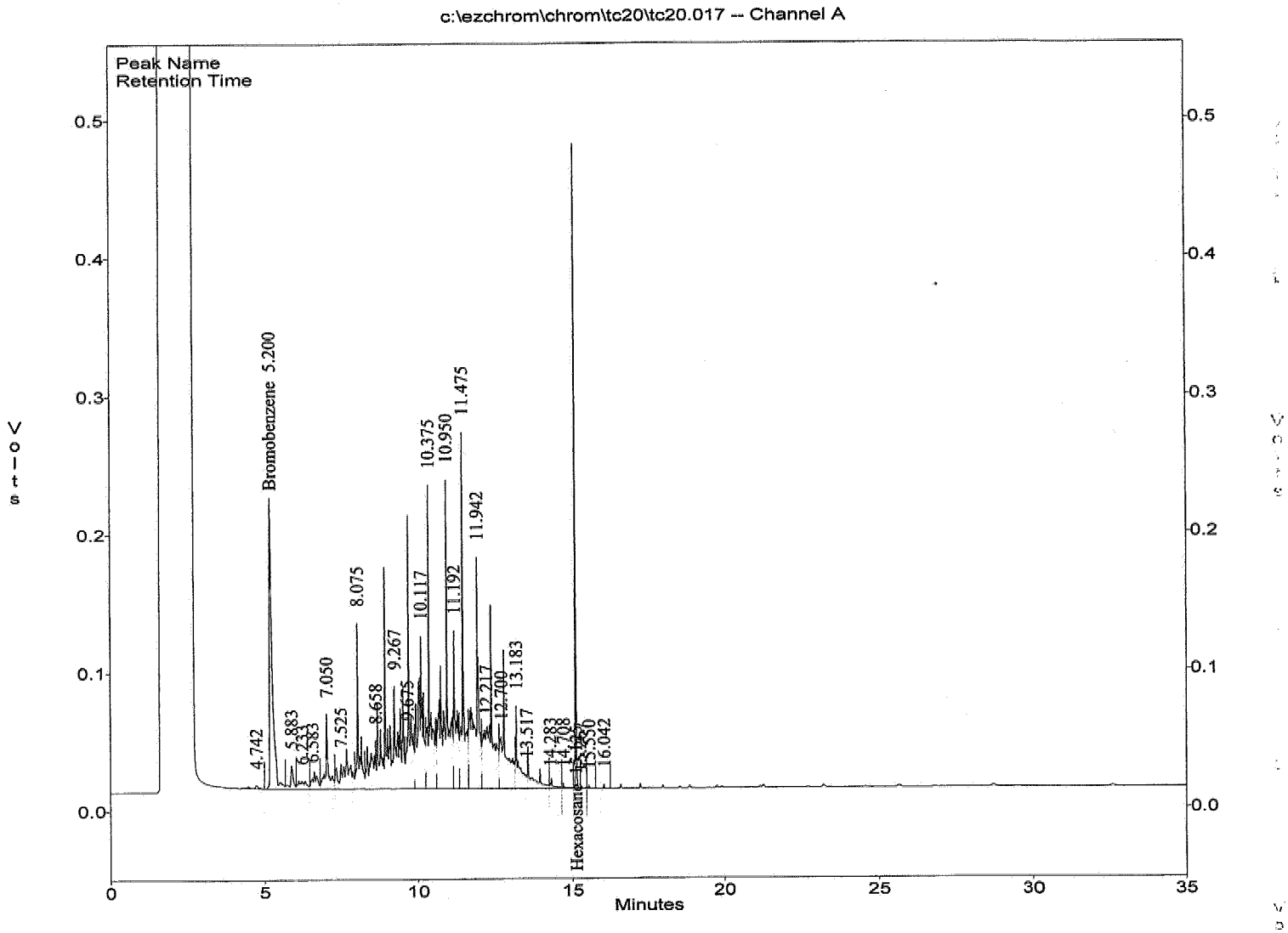
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
DIESEL(TOTAL)	0.000	0.000	0.000	500.0	26500.7	14347084	541.39	8		15
DIESEL(C10-C24)	0.000	0.000	0.000	500.0	26460.6	14193006	536.38	7		15
DIESEL(C10-C28)	0.000	0.000	0.000	500.0	26478.8	14214289	536.82	7		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
BROMOBENZENE	5.200	5.113	5.287	100.0	14214.3	1256014	88.36	-12		15
HEXACOSANE	15.125	14.792	15.458	25.0	28984.5	740659	25.55	2		15

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc20\tc20.017
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : CDS50A31538 D500
Acquired : Mar 20, 2006 22:41:49
Printed : Mar 21, 2006 09:34:12
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
2	Bromobenzene	5.200	1256014	14214.3	88.4
24	Hexacosane	15.125	740659	28984.5	25.6
G1	Diesel(TOTAL)		14347084	26500.7	541.4
G2	Diesel(C10-C24)		14193006	26460.6	536.4
G3	Diesel(C10-C28)		14214289	26478.8	536.8



CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
Instrument ID : GCTO50
GC Column : DB-5
Column size ID : 30MX0.25MM
Mid Conc Init LFID & Datetime: TA05022A 01/06/2006 02:01
Conc Cont LFID & Datetime: TC20018A 03/20/2006 23:23
CONC UNIT : ppm

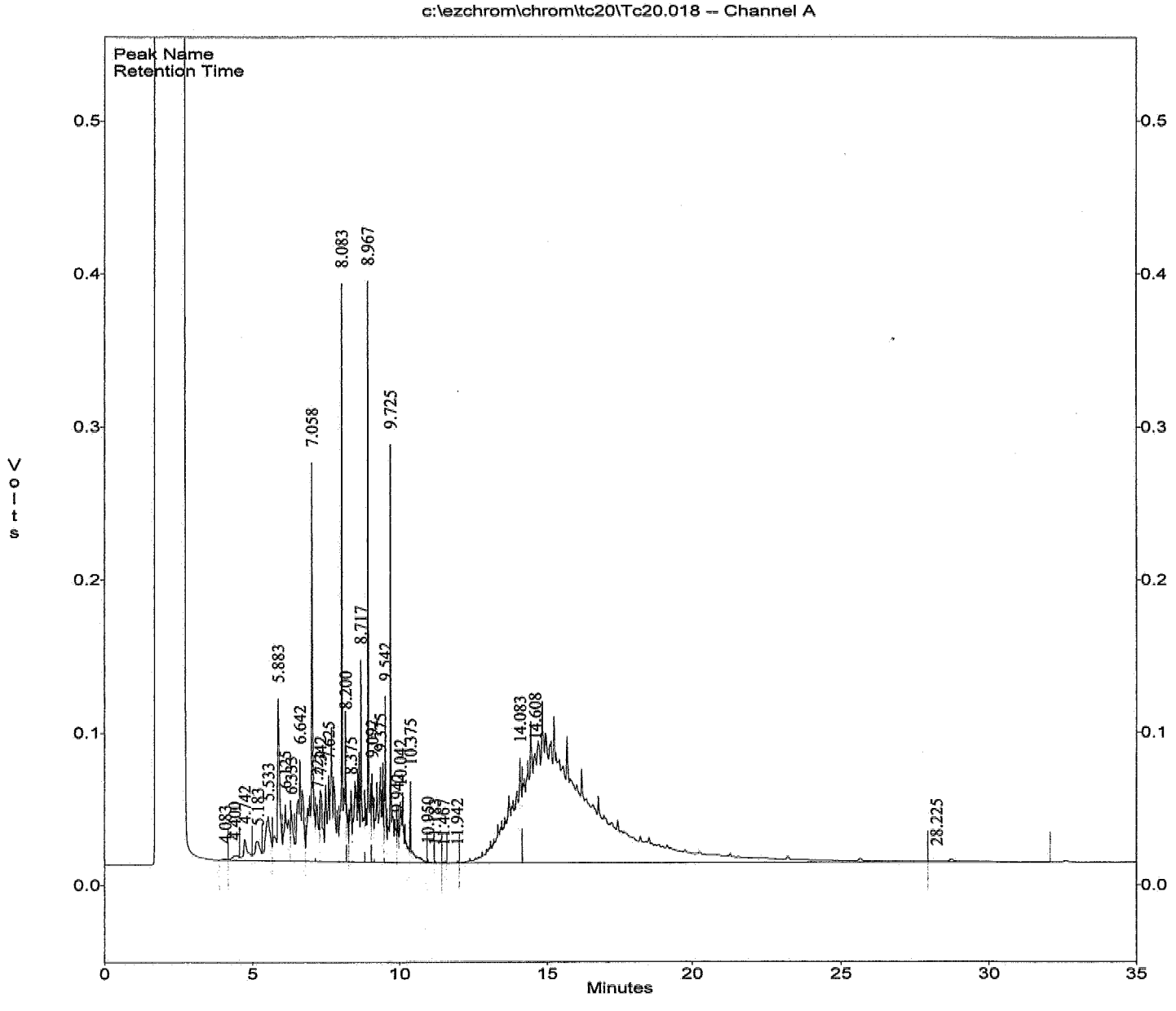
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
JP5	0.000	0.000	0.000	500.0	23046.2	11549974	501.17	0		15
5W30	0.000	0.000	0.000	500.0	32168.8	15440349	479.98	-4		15

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc20\Tc20.018
Method : c:\ezchrom\methods\J550a05m.met
Sample ID : CJ550A05M539 JP5/MO
Acquired : Mar 20, 2006 23:23:42
Printed : Mar 20, 2006 23:58:43
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
G1	JP5		11549974	23046.2	501.2
G2	5W30		15440349	32168.8	480.0



CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
Instrument ID : GCTO50
GC Column : DB-5
Column size ID : 30MX0.25MM
Mid Conc Init LFID & Datetime: TA31006A 01/31/2006 17:51
Conc Cont LFID & Datetime: TC20030A 03/21/2006 07:45
CONC UNIT : ppm

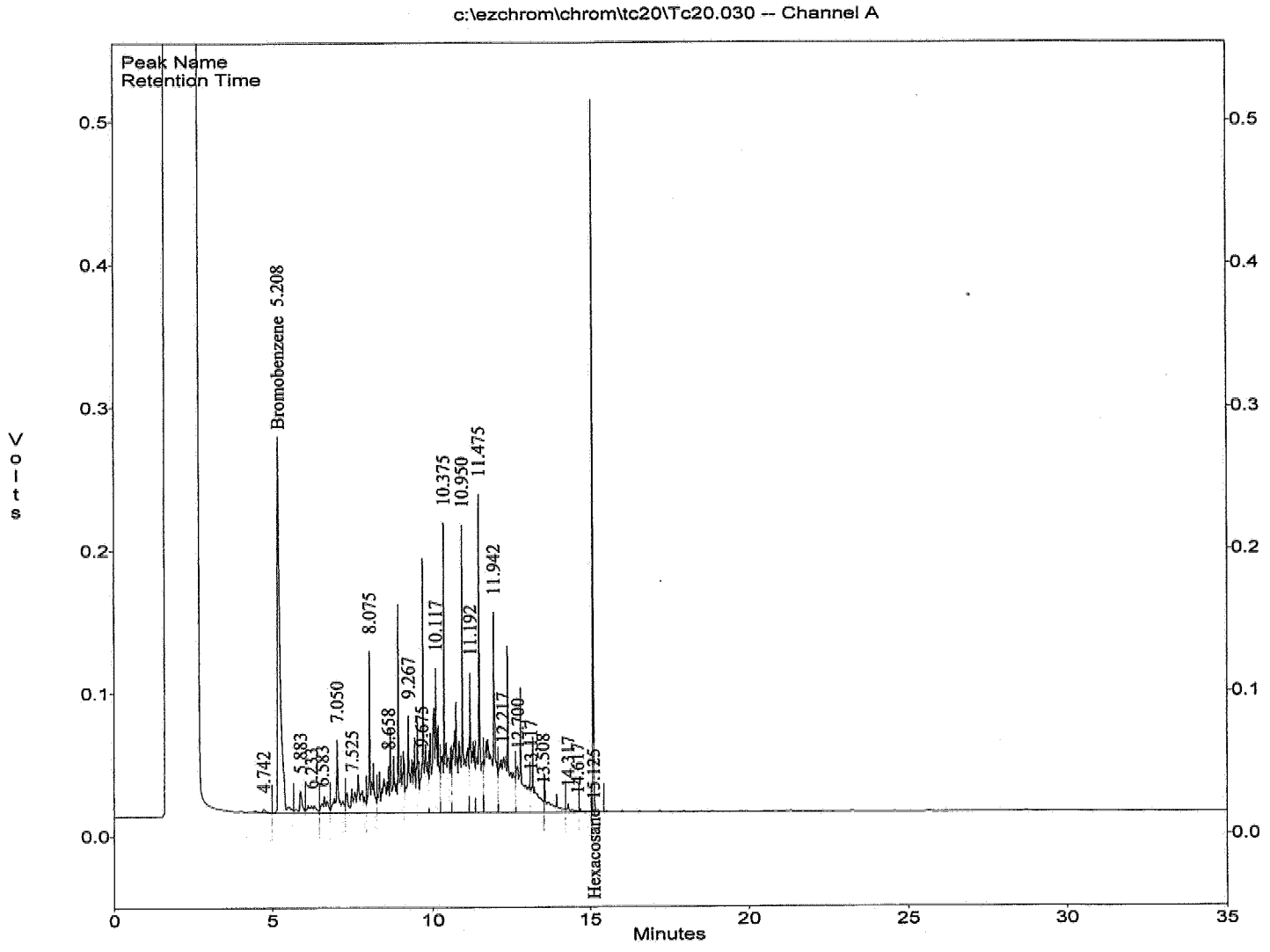
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
DIESEL(TOTAL)	0.000	0.000	0.000	500.0	26500.7	12724171	480.14	-4		15
DIESEL(C10-C24)	0.000	0.000	0.000	500.0	26460.6	12589314	475.78	-5		15
DIESEL(C10-C28)	0.000	0.000	0.000	500.0	26478.8	12602339	475.94	-5		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
BROMOBENZENE	5.208	5.121	5.295	100.0	14214.3	1498204	105.40	5		15
HEXACOSANE	15.125	14.792	15.458	25.0	28984.5	824201	28.44	14		15

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc20\Tc20.030
Method : c:\ezchrom\methods\Ds50a31.met
Sample ID : CDS50A31540 D500
Acquired : Mar 21, 2006 07:45:01
Printed : Mar 21, 2006 08:20:03
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc. (ppm)
2	Bromobenzene	5.208	1498204	14214.3	105.4
24	Hexacosane	15.125	824201	28984.5	28.4
G1	Diesel(TOTAL)		12724171	26500.7	480.1
G2	Diesel(C10-C24)		12589314	26460.6	475.8
G3	Diesel(C10-C28)		12602339	26478.8	475.9



CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
Instrument ID : GCTO50
GC Columm : DB-5
Column size ID : 30MX0.25MM
Mid Conc Init LFID & Datetime: TA05022A 01/06/2006 02:01
Conc Cont LFID & Datetime: TC20031A 03/21/2006 08:26
CONC UNIT : ppm

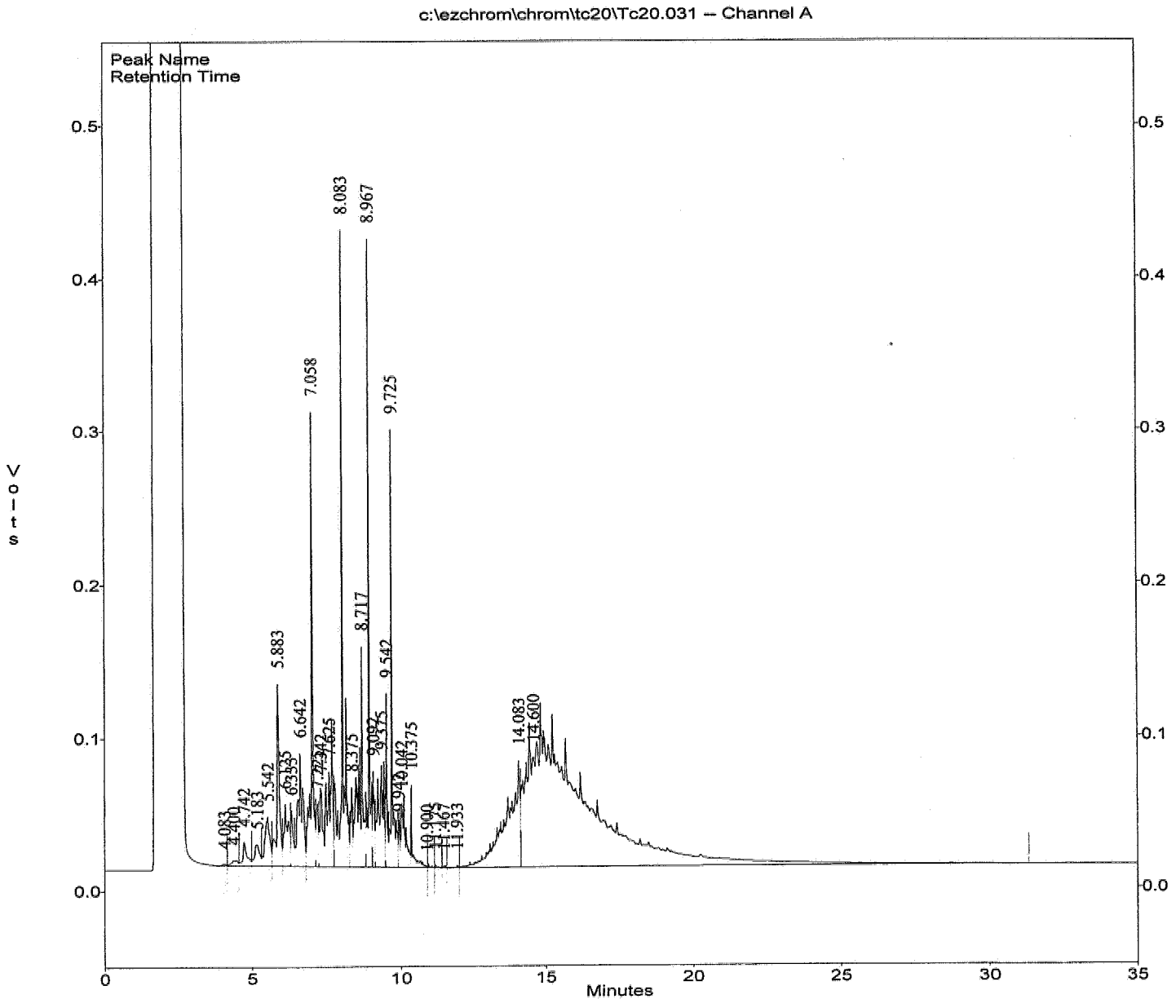
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
JP5	0.000	0.000	0.000	500.0	23046.2	12533405	543.84	9		15
5W30	0.000	0.000	0.000	500.0	32168.8	15703274	488.15	-2		15

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc20\Tc20.031
Method : c:\ezchrom\methods\J550a05m.met
Sample ID : CJ550A05M541 JP5/MO
Acquired : Mar 21, 2006 08:26:49
Printed : Mar 21, 2006 09:01:50
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
G1	JP5		12533405	23046.2	543.8
G2	5W30		15703274	32168.8	488.2



ANALYTICAL LOGS

ANALYSIS RUN LOG FOR TPH

SOP ☑ EMAX-M8015D Revision No. 3 ☐ EMAX-LUFTE Revision No. 3 ☐ Book # A50-021

Starting Date: 01-05-06 Time: 22:31 Ending Date: 01-06-06 Time: 07:37

ANALYTICAL BATCH N/A

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix S	Matrix W	Notes
	TA05-017	TEST				
	.018	IB50A233				
	.019	U550A05M 01				10 PPM
	.020	02				20
	.021	03				50
	.022	04				500
	.023	05				1000
	.024	06				1500
	.025	07				3000
	.026	IU550A05M 01				500 ↓ JP5+SW30 ICV
	.027	02				1500
	.028	HC-CHAIN				
	.029	MeCl2				
	.030	MeCl2				

No 01-06-06

Instrument No:	50
INITIAL CALIBRATION REFERENCE	

	ID	Date
Diesel		
Motor oil		
JP 5		
JP5+SW30	U550A05M	01-05-06

Standards

Name	ID	Conc. (mg/L)
CH_2Cl_2	45209	pure
DCC		
JP5+SW30 ICAL	SS3B-07-01-1	10-3000
JP5 ICV	SS3B-06-55-3	50,000
SW30 ICV	SS3B-06-69-3	50,000

Electronic Data Archival

Location	Date
☐ EZC_1_Diesel	
☐	

Comments:

Analyzed By: JD

Disposed on: 01-06-06 By: JD

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

ANALYSIS RUN LOG FOR TPH

SOP ☑ **EMAX-M8015D Revision No. 3** ☐ **EMAX-LUFTE Revision No. 3** ☐ **Book # A50-021**

Starting Date: 01·31·06 **Time:** 14:20 **Ending Date:** 01·31·06 **Time:** 23:27

ANALYTICAL BATCH N/A

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix S	Matrix W	Notes
	TA31-001	IBS0A336				DSL (PRM) SURR
	.002	DS50A31 01				> bad injection
	.003	02				
	.004	03				50 40/10
	.005	04				100 60/15
	.006	05				500 100/25
	.007	06				1500 140/35
	.008	07				3000 220/55
	.009	01				5
	.010	↓ 02				10 20/5
	.011	IDS50A31 01				500 100/25 ; DSL ICV
	.012	↓ 02				1500 140/35 ↓
	.013	HC-CHAIN				
	.014	MeCl2				

01/31/06

Instrument No:		50
INITIAL CALIBRATION REFERENCE		
	ID	Date
Diesel	DS50A31	01·31·06
Motor oil		
JP 5		

Standards		
Name	ID	Conc. (mg/L)
CH_2Cl_2	45257	pure
DCC		
DSL 1GAL	SS3C-07-04-2	5·3000
+ SURR		20/5 · 220/55
DSL ICV	SS3C-07-03-3	3000

Electronic Data Archival	
Location	Date
☐ EZC_1_Diesel	
☐	

Comments:

Analyzed By: JO

Disposed on: 02-01-06 By: JO

ANALYSIS RUN LOG FOR TPH

SOP ☑ EMAX-M8015D Revision No. 3 ☑ EMAX-LUFTE Revision No. 3 ☐ Book # A50-023

Starting Date: 03-20-06 Time: 12:11 Ending Date: 03-21-06 Time: 04:16

ANALYTICAL BATCH CDS50A31536

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix S	Matrix W	Notes
	TC20.001	TEST				
	.002	IBS0C536				
	.003	DCC TEST				
	.004	CDS50A31535				D500
	.005	CJS50A0DM537				JP5/SW30; 500 PPM
DSC017S	.006	DSC017SB	1	✓		
↓	.007	↓ L	↓	↓		
↓	.008	06C174.01	↓	↓		
↓	.009	03	↓	↓		
↓	.010	02	↓	↓		
↓	.011	02M	↓	↓		
↓	.012	02S	↓	↓		
DSC015W	.013	DSC015WB	↓		✓	
↓	.014	C	↓		↓	
↓	.015	B	↓		↓	
	.016	CDS50A31538				D500; not evaluated
	.017	CDS50A31538				D500
	.018	CJS50A0DM539				JP5/SW30; 500 PPM
DSC015W	.019	06C119.02	1		✓	
↓	.020	06C115.06	↓		↓	
↓	.021	08	↓		↓	
↓	.022	10	↓		↓	
↓	.023	12	↓		↓	
↓	.024	14	↓		↓	
DSC014S	.025	06C108-09	↓	✓	↓	go 03-21-06

Instrument No:		50
INITIAL CALIBRATION REFERENCE		
	ID	Date
Diesel	DS50A31	3/3/06
Motor oil		
JP 5/SW30	US50AUSM	01-05-06

Standards

Name	ID	Conc. (mg/L)
CH_2Cl_2	45257	pure
DCC BSL	SS3C 07-10-1	500
JP5/SW30	SS3C-07-09-3	500

Electronic Data Archival

Location	Date
☐ EZC_1_Diesel	
☐	

Comments:

Analyzed By: go

Disposed on: 03-21-06 By: go

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

ANALYSIS RUN LOG FOR TPH

SOP ☑ EMAX-M8015D Revision No. 3 ☐ EMAX-LUFTE Revision No. 3 ☐ Book # A50-023

Starting Date: 03-21-06 Time: 04:58 Ending Date: 03-21-06 Time: 16:08

ANALYTICAL BATCH DS50A31S?6

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix S	Matrix W	Notes
DSC014S	TC20-026	06C108-05	1	✓		
↓	.027	12	↓	↓		
↓	.028	08T	2	↓		5.1 ML
	.029	IBOOC540				
	.030	CDS50A31S40				D500
	.031	CJS50A05M541				JP5/SW30; 500 PPM
DSC015W	.032	06C115-16	1		✓	
	.033	18				
	.034	20				
	.035	23				
	.036	06C123-03				
	.037	06C115-02				light yellow
	.038	02M				
	.039	02S				
↓	.040	04	↓		↓	↓
	.041	CDS50A31S42				D500
	↓ .042	CJS50A05M543				JP5/SW30; 500 PPM

JO 03/21/06

Instrument No:		50
INITIAL CALIBRATION REFERENCE		
	ID	Date
Diesel	DS50A31	03-31-06
Motor oil		
JP 5/SW30	US50A05M	03-05-06

Standards

Name	ID	Conc. (mg/L)
CH_2Cl_2	45257	none
DCC DL	6336-07-10-1	500
JP5/SW30 DCL	6336-07-09-3	500

Electronic Data Archival

Location	Date
☐ EZC_1_Diesel	
☐	

Comments:

Analyzed By: JO

Disposed on: 03-21-06 By: JO

EXTRACTION LOGS

EXTRACTION LOG FOR TPH

SOP ☐ EMAX-3550 Rev. No.1 ☒ EMAX-3520 Rev. No.1 ☐ EMAX-LUFT E Rev. No.1 ☐ EMAX-3540 Rev. No.0 ☐ EMAX-3510Rev.No. 1

Matrix: WATER Start Date: 3/16/06 Time: 15:30 End Date: 3/17/06 Time: 9:30 Book # EDS-026

PREPARATION BATCH # DSC015 W

Sample Prep ID	Lab Sample ID	Sonicator Number	Sample Amount (g | ml)	Extract Volume (ml)	Silica Gel Clean-up	Notes
01	DSC015 - WB	N/A	1000	10		
02	- WL		1000	10		
03	- WC		1000	10		
04	06C115 - 02		1020	10		dark
05	- 02 M		1060	10		yellow
06	- 025		1060	10		soln.
07	- 04		1030	10		light yellow soln.
08	- 06		1020	10		
09	- 08		1030	10		
10	- 10		1050	10		
11	- 12		1060	10		
12	- 14		1050	10		light yellow soln
13	- 16		1040	10		yellow soln.
14	- 18		1030	10		
15	- 20		980	10		
16	- 23		1000	10		dark yellow soln.
17	06C119 - 02		1060	10		
18	06C123 - 03		960	10		
19						
20						
21						ML
22						3/16/06
23						
24						
25						
26						
27						

Standards	ID	Amount Added (ml)
Surrogate	SS3C-07-04-1	1.0
LCS/MS	SS3C-07-04-3	1.0

Reagent	Lot# / ID
CH_2Cl_2	45257
Na_2SO4	45045
HCl	45105
Silica Sand	—

TUNING

Sonicator #	Reading
	N/A

Concentrator Water Bath Temp. (C)

1	35	35
2	35	35
3	35	35
4		
5		
6		

Comments: Test thermometer = T_1

Prepared By: JM / AB Standard Added By: JM

Witnessed By: AB Checked By: ML

Extract Received by: JP 03-20-06 Extract Location: SE06-07

Disposal Date: Disposed By:

This page is checked during data review.

LABORATORY REPORT FOR

ENSR

UPGRADIENT INVESTIGATION, TRONOX

METHOD M8015
ALCOHOLS BY GC

SDG#: 06C119

CASE NARRATIVE

CLIENT: ENSR

PROJECT: UPGRADIENT INVESTIGATION, TRONOX

SDG: 06C119

METHOD M8015
ALCOHOLS BY GC

Two (2) water samples were received on 03/14/06 for Alcohols by GC analysis by Method M8015 in accordance with USEPA SW846, 3rd Ed.

1. Holding Time

Analytical holding time was met. Water samples were not preserved.

2. Calibration

Initial calibration was five points. %RSD was within 20%. Continuing calibrations were carried out within 10-sample interval. All recoveries were within 85-115%.

3. Method Blank

Method blank was free of contamination at the reporting limit.

4. Lab Control Sample/Lab Control Sample Duplicate

All recoveries were within QC limits.

5. Matrix Spike/Matrix Spike Duplicate

No sample was requested for spike.

6. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
ALCOHOLS BY GC

Client : ENSR
Project : UPGRADIENT INVESTIGATION, TRONOX

SDG NO. : 06C119
Instrument ID : GCT043

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	MEC009WB	1	NA	03/17/0608:57	03/17/0608:57	DC17003A	DC17002A	MEC009W	Method Blank
LCS1W	MEC009WL	1	NA	03/17/0609:12	03/17/0609:12	DC17004A	DC17002A	MEC009W	Lab Control Sample (LCS)
LCD1W	MEC009WC	1	NA	03/17/0609:29	03/17/0609:29	DC17005A	DC17002A	MEC009W	LCS Duplicate
TR-10A	C119-01	1	NA	03/17/0609:45	03/17/0609:45	DC17006A	DC17002A	MEC009W	Field Sample
PUMP BLANK	C119-02	1	NA	03/17/0610:00	03/17/0610:00	DC17007A	DC17002A	MEC009W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD M8015
ALCOHOLS BY GC

Client	: ENSR	Date Collected:	03/13/06
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/14/06
Batch No.	: 06C119	Date Extracted:	03/17/06 09:45
Sample ID:	TR-10A	Date Analyzed:	03/17/06 09:45
Lab Samp ID:	C119-01	Dilution Factor:	1
Lab File ID:	DC17006A	Matrix :	WATER
Ext Btch ID:	MEC009W	% Moisture :	NA
Calib. Ref.:	DC17002A	Instrument ID :	GCT043

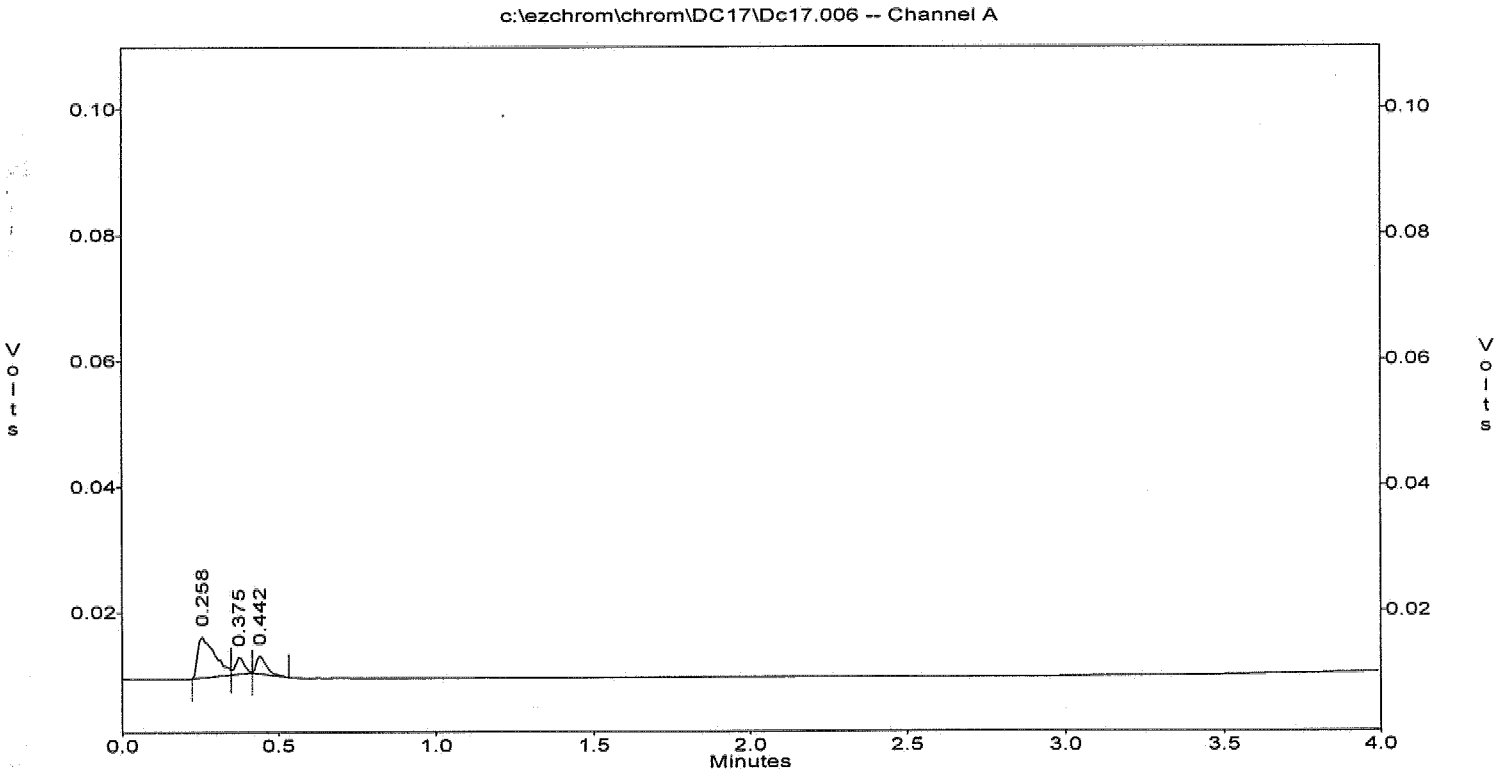
PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
METHANOL	ND	1	.5
ETHANOL	ND	1	.5

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC17\Dc17.006
Method : c:\ezchrom\methods\Me43c06.met
Sample ID : 06C119-01
Acquired : Mar 17, 2006 09:45:16
Printed : Mar 17, 2006 09:49:17
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
--	METHANOL	1.000	0	0.0	0.0
--	ETHANOL	1.217	0	0.0	0.0



METHOD M8015
ALCOHOLS BY GC

Client	: ENSR	Date Collected:	03/13/06
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/14/06
Batch No.	: 06C119	Date Extracted:	03/17/06 10:00
Sample ID:	PUMP BLANK	Date Analyzed:	03/17/06 10:00
Lab Samp ID:	C119-02	Dilution Factor:	1
Lab File ID:	DC17007A	Matrix	: WATER
Ext Btch ID:	MEC009W	% Moisture	: NA
Calib. Ref.:	DC17002A	Instrument ID	: GCT043

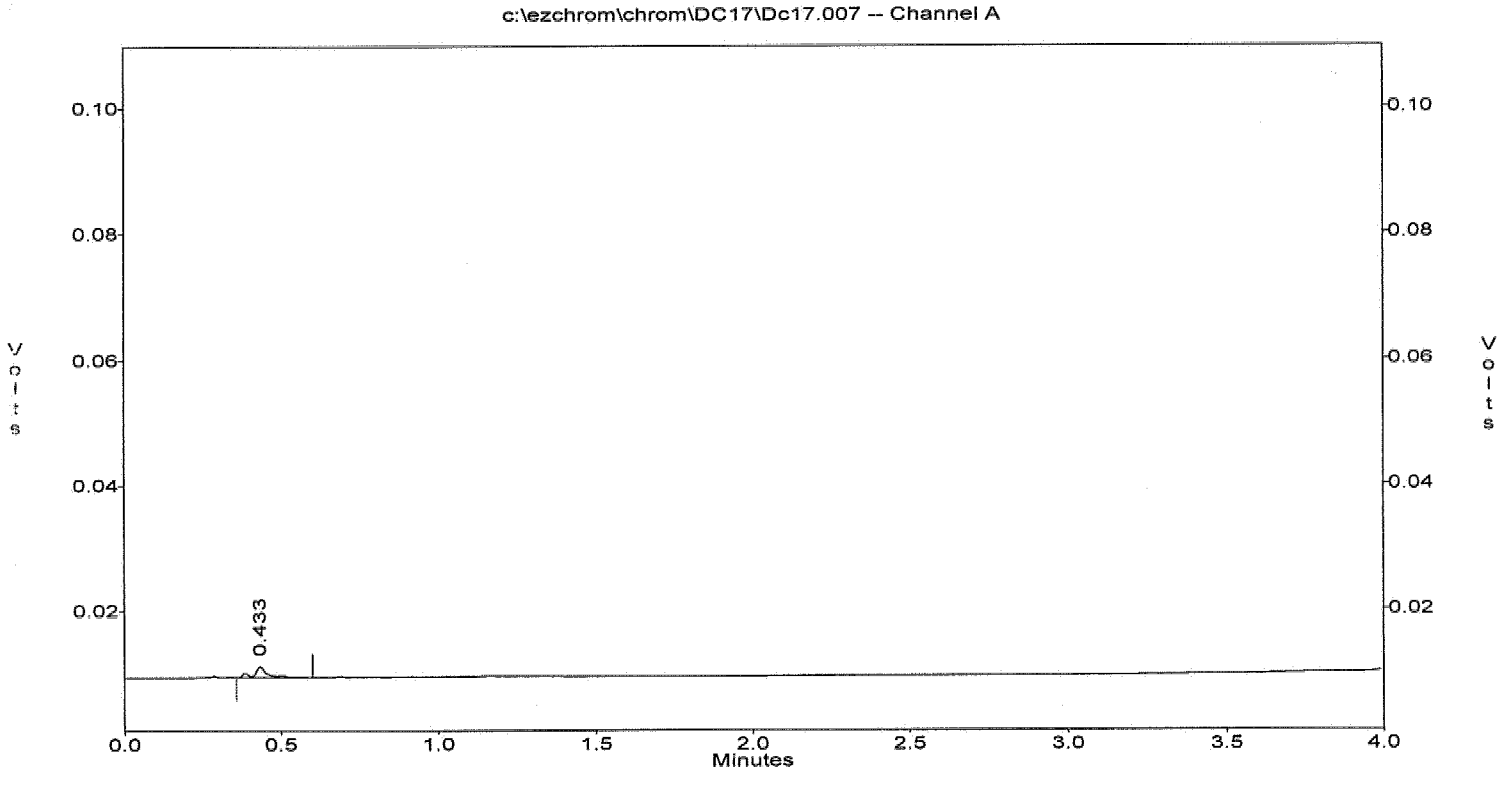
PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
METHANOL	ND	1	.5
ETHANOL	ND	1	.5

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC17\Dc17.007
Method : c:\ezchrom\methods\Me43c06.met
Sample ID : 06C119-02
Acquired : Mar 17, 2006 10:00:44
Printed : Mar 17, 2006 10:04:45
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
--	METHANOL	1.000	0	0.0	0.0
--	ETHANOL	1.217	0	0.0	0.0



QC SUMMARIES

METHOD M8015
ALCOHOLS BY GC

Client	: ENSR	Date Collected:	NA
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/17/06
Batch No.	: 06C119	Date Extracted:	03/17/06 08:57
Sample ID	: MBLK1W	Date Analyzed:	03/17/06 08:57
Lab Samp ID	: MEC009WB	Dilution Factor:	1
Lab File ID	: DC17003A	Matrix :	WATER
Ext Btch ID	: MEC009W	% Moisture :	NA
Calib. Ref.	: DC17002A	Instrument ID :	GCT043

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
METHANOL	ND	1	.5
ETHANOL	ND	1	.5

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
BATCH NO.: 06C119
METHOD: METHOD M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	MEC009WB	MEC009WL	MEC009WC		
LAB FILE ID:	DC17003A	DC17004A	DC17005A		
DATE EXTRACTED:	03/17/0608:57	03/17/0609:12	03/17/0609:29	DATE COLLECTED:	NA
DATE ANALYZED:	03/17/0608:57	03/17/0609:12	03/17/0609:29	DATE RECEIVED:	03/17/06
PREP. BATCH:	MEC009W	MEC009W	MEC009W		
CALIB. REF:	DC17002A	DC17002A	DC17002A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Methanol	ND	10	10	100	10	10.3	103	3	60-130	30
Ethanol	ND	10	9.05	91	10	8.58	86	5	60-130	30

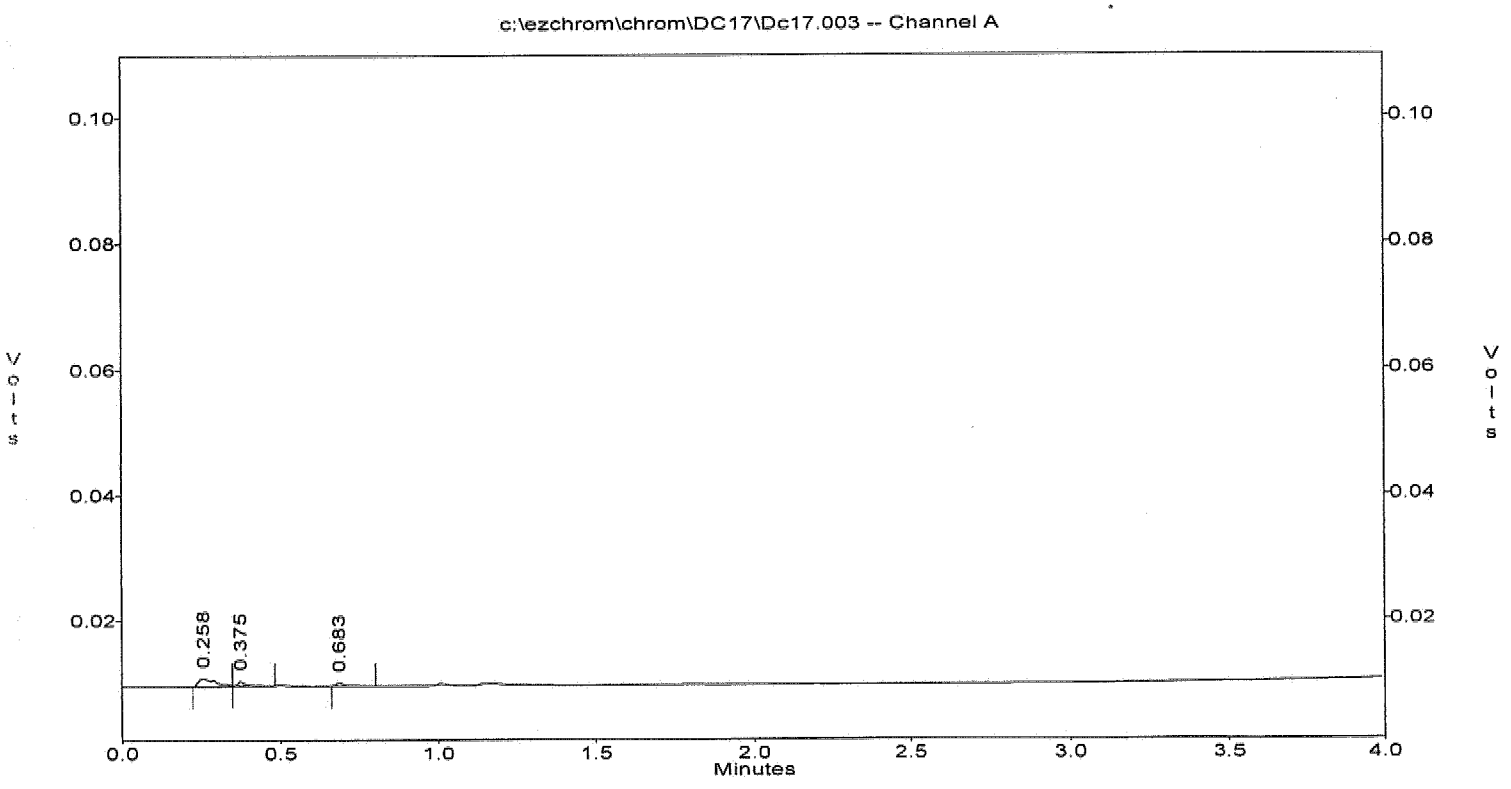
QC DATA

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC17\Dc17.003
Method : c:\ezchrom\methods\Me43c06.met
Sample ID : MEC009WB
Acquired : Mar 17, 2006 08:57:42
Printed : Mar 17, 2006 09:01:43
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
--	METHANOL	1.000	0	0.0	0.0
--	ETHANOL	1.217	0	0.0	0.0

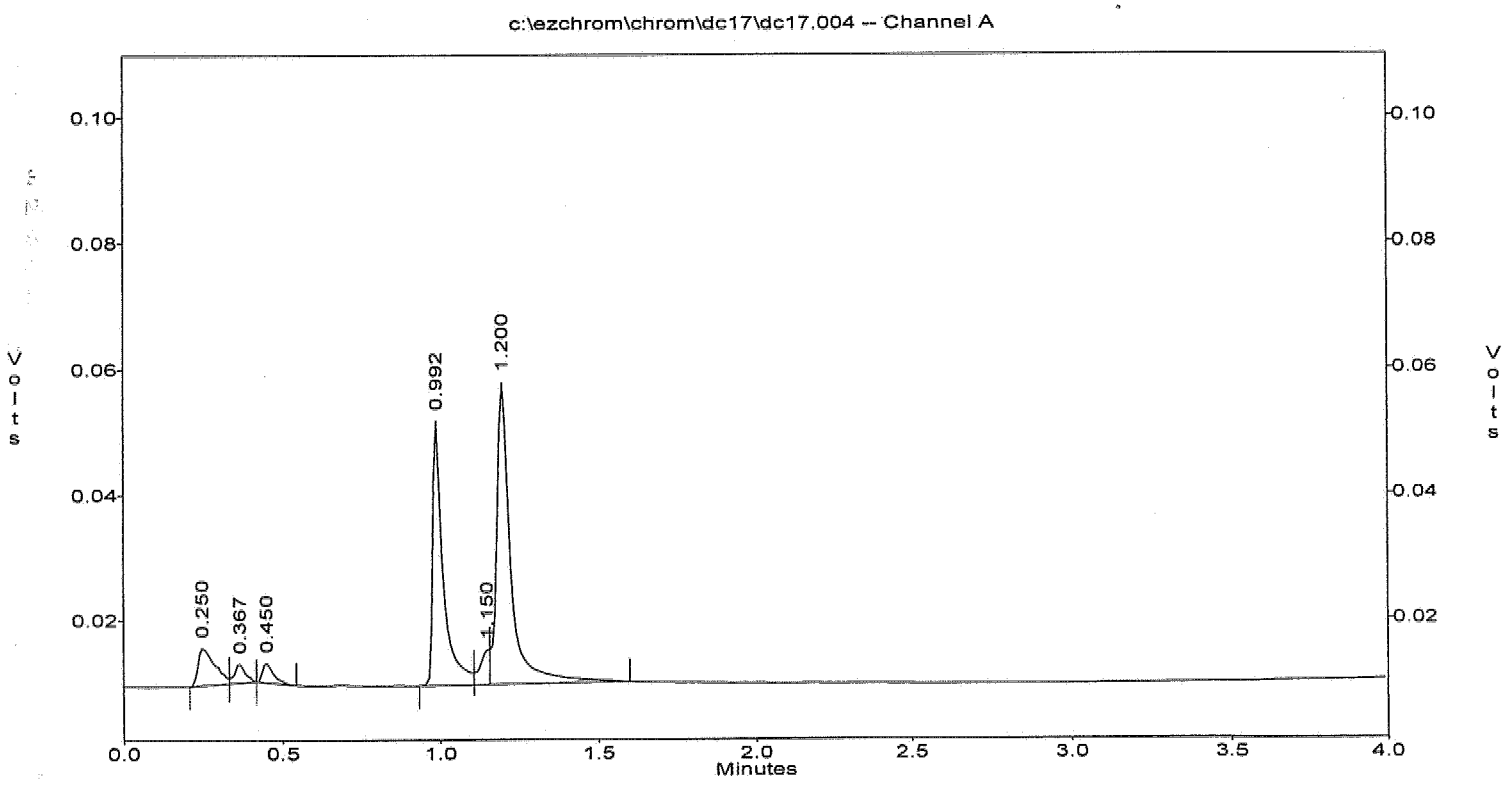


EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc17\dc17.004
Method : c:\ezchrom\methods\me43c06.met
Sample ID : MEC009WL
Acquired : Mar 17, 2006 09:12:58
Printed : Mar 17, 2006 09:20:51
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
4	METHANOL	0.992	97776	9735.5	10.0
6	ETHANOL	1.200	147718	16319.3	9.1

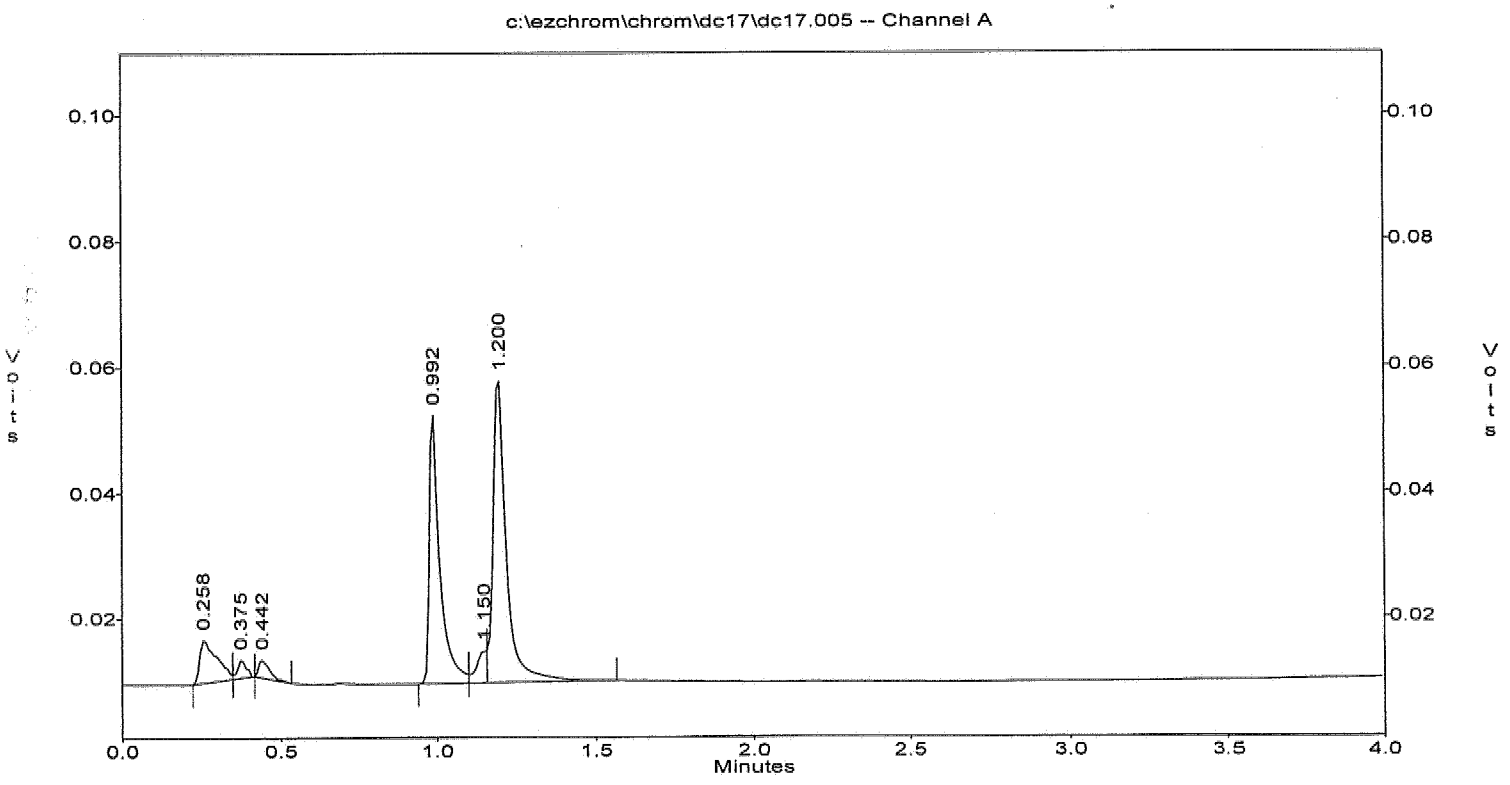


EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc17\dc17.005
Method : c:\ezchrom\methods\me43c06.met
Sample ID : MEC009WC
Acquired : Mar 17, 2006 09:29:48
Printed : Mar 17, 2006 09:40:27
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
4	METHANOL	0.992	100476	9735.5	10.3
6	ETHANOL	1.200	140014	16319.3	8.6



INITIAL CALIBRATION

INITIAL CALIBRATION
METHOD M8015

Lab Name : EMAX Inc
Instrument ID : GCT043
GC Columm : SUPELCO WAX 10
Column size ID : 30MX0.53MMX0.25UM
LFID & Datetime: DC06002A 03/06/06 13:33 ✓
LFID & Datetime: DC06003A 03/06/06 13:53 ✓
LFID & Datetime: DC06004A 03/06/06 14:11 ✓
LFID & Datetime: DC06005A 03/06/06 14:29 ✓
LFID & Datetime: DC06006A 03/06/06 14:47 ✓
CONC UNIT: ppm

COMPOUND	CONC X	CALIBRATION FACTORS (AREA or HEIGHT)/UNIT 1.00X	5.00X	10.00X	15.00X	20.00X	MEAN	%RSD	
METHANOL	1.00	9358.00	9968.80	9945.50	9619.93	9785.45	9735.54	2.6	✓
ETHANOL	1.00	14498	16802	17403	17481	15412	16319	8.0	✓

ME43C06.MET

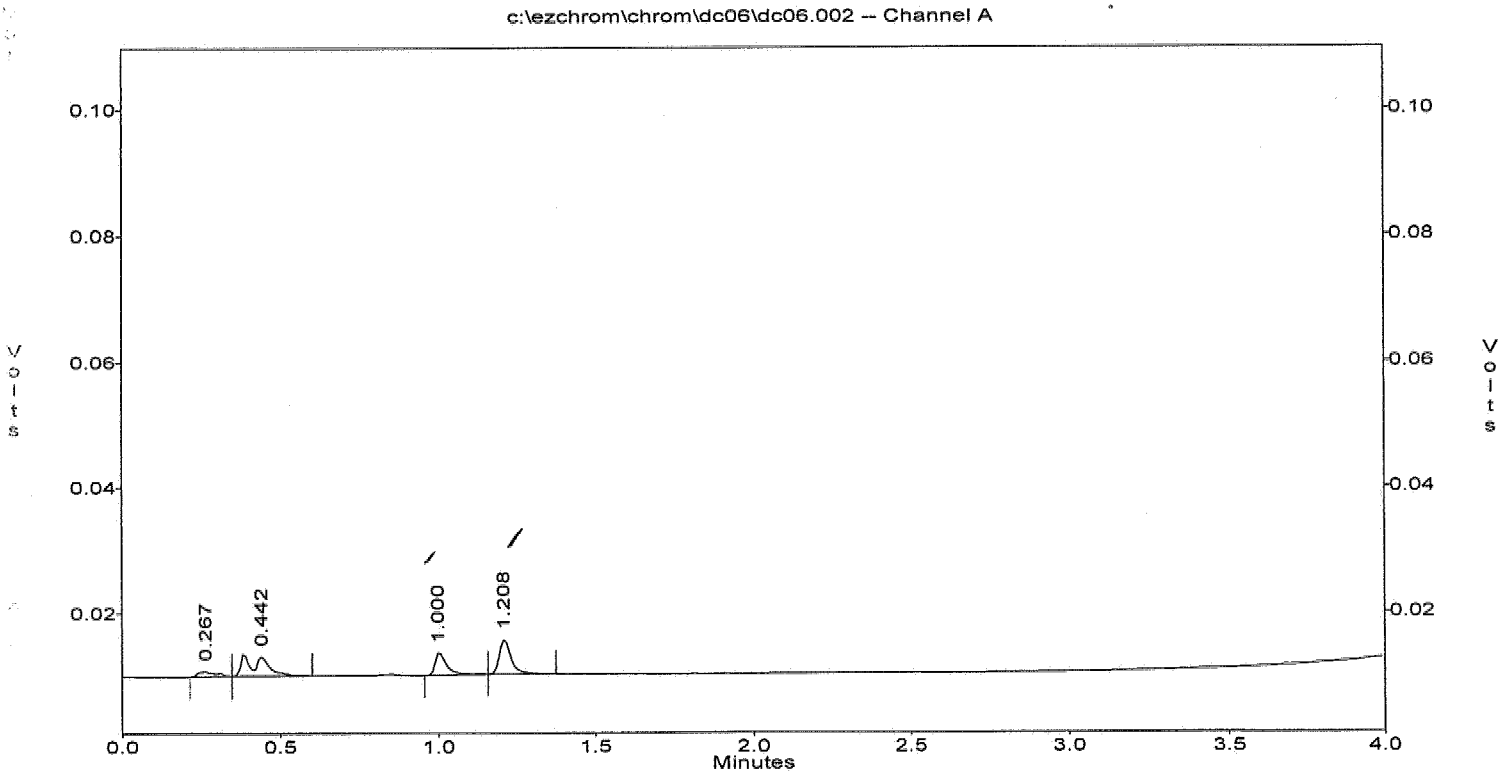
RA 03/08/06

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc06\dc06.002
Method : c:\ezchrom\methods\me43c06.met
Sample ID : ME43C0601 1PPM
Acquired : Mar 06, 2006 13:33:28
Printed : Mar 06, 2006 15:11:10
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc. (ppm)
3	METHANOL	1.000	9358	9735.5	1.0
4	ETHANOL	1.208	14498	16319.3	1.0



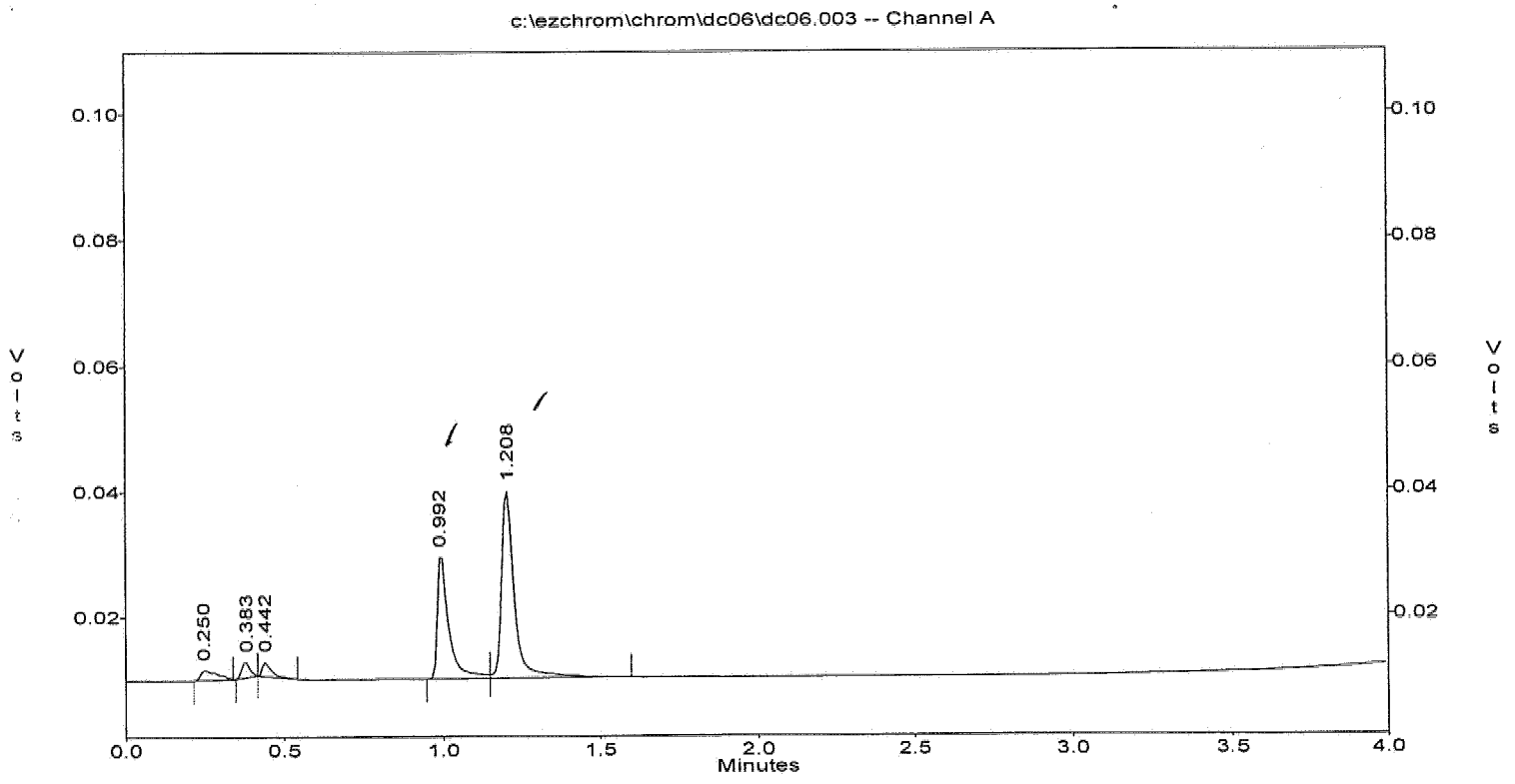
03/08/06
5074

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc06\dc06.003
Method : c:\ezchrom\methods\me43c06.met
Sample ID : ME43C0602 5PPM
Acquired : Mar 06, 2006 13:53:42
Printed : Mar 06, 2006 15:11:14
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
4	METHANOL	0.992	49844	9735.5	5.0
5	ETHANOL	1.208	84012	16319.3	5.0



03/08/06

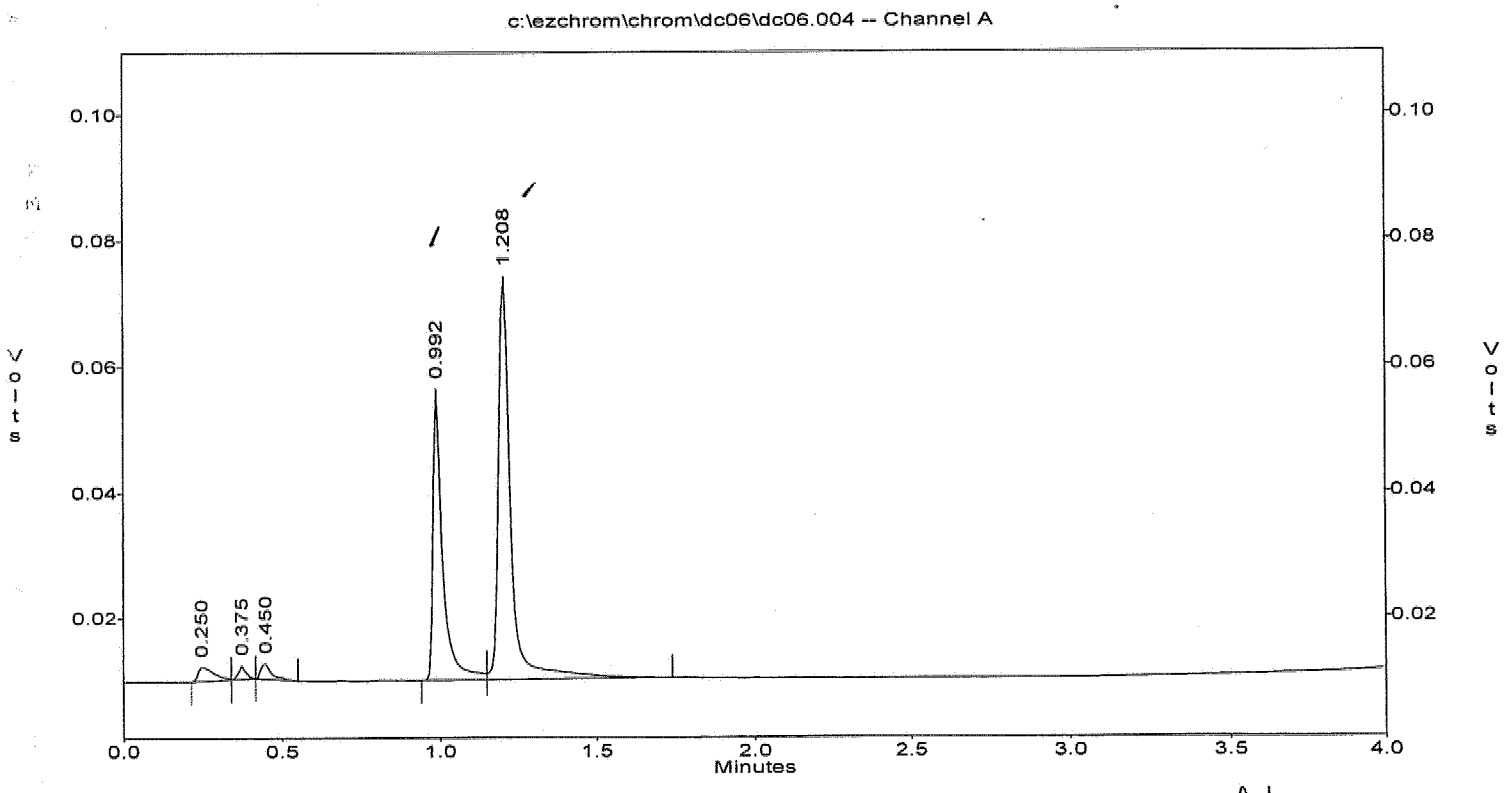
5075

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc06\dc06.004
Method : c:\ezchrom\methods\me43c06.met
Sample ID : ME43C0603 10PPM
Acquired : Mar 06, 2006 14:11:39
Printed : Mar 06, 2006 15:11:18
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc. (ppm)
4	METHANOL	0.992	99455	9735.5	10.0
5	ETHANOL	1.208	174031	16319.3	10.0



RA
03/08 10b

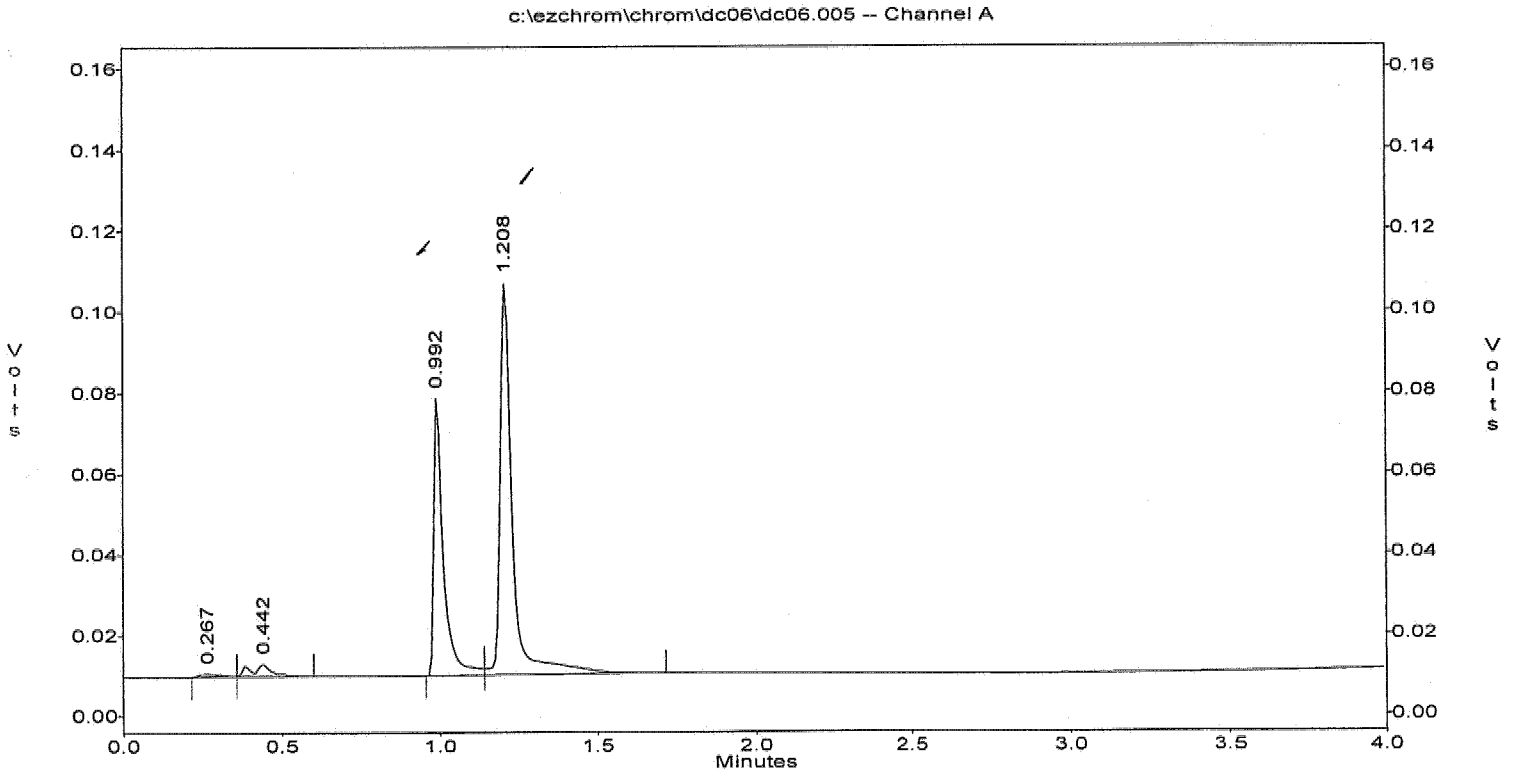
5876

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc06\dc06.005
Method : c:\ezchrom\methods\me43c06.met
Sample ID : ME43C0604 15PPM
Acquired : Mar 06, 2006 14:29:43
Printed : Mar 06, 2006 15:11:28
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
3	METHANOL	0.992	144299	9735.5	15.0
4	ETHANOL	1.208	262213	16319.3	15.0



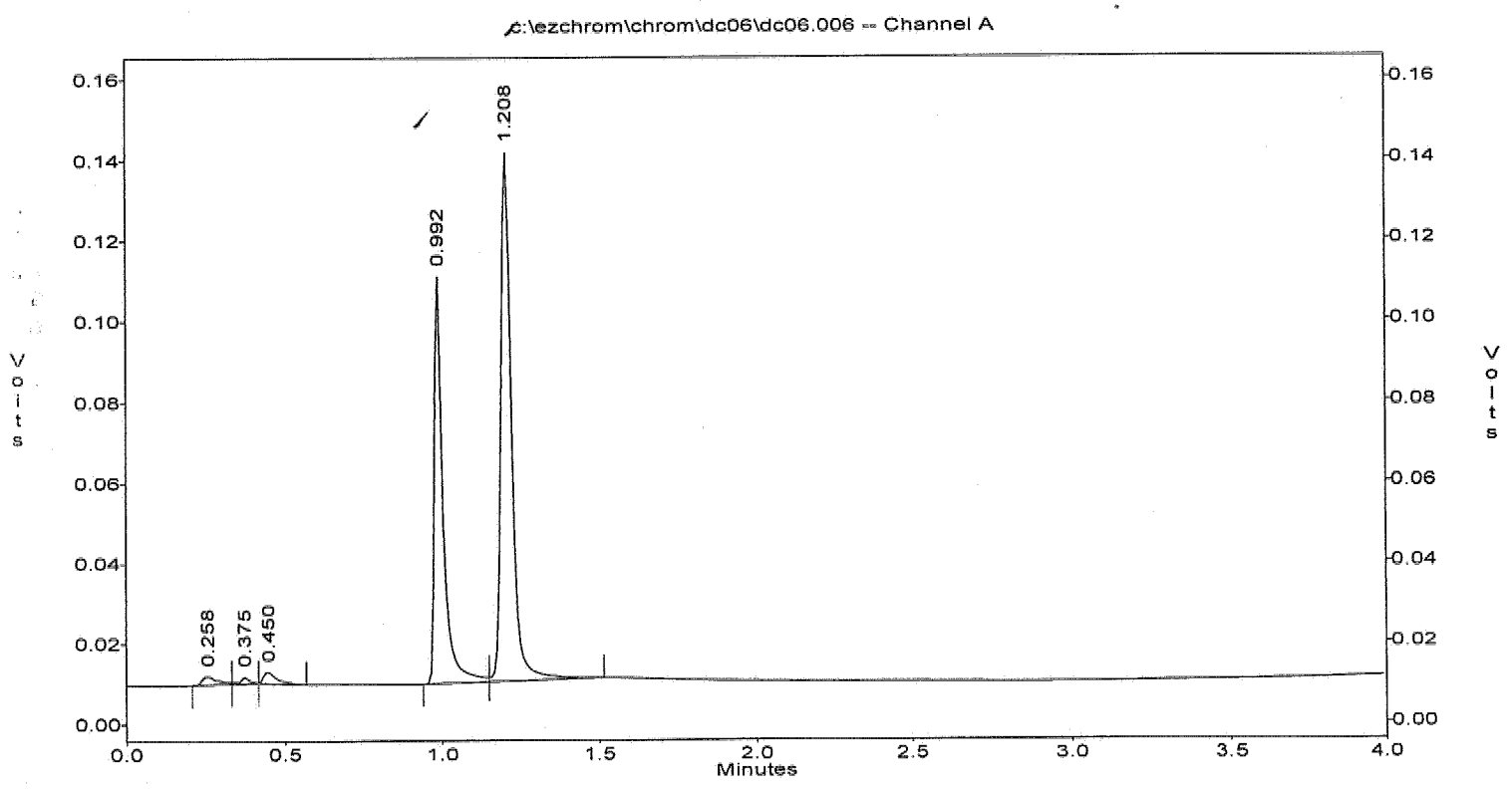
03/08/06
5077

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc06\dc06.006
Method : c:\ezchrom\methods\me43c06.met
Sample ID : ME43C0605 20PPM
Acquired : Mar 06, 2006 14:47:41
Printed : Mar 06, 2006 15:11:33
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
4	METHANOL	0.992	195709	9735.5	20.0
5	ETHANOL	1.208	308245	16319.3	20.0



03/08/06
5078

SECOND SOURCE

INITIAL CALIBRATION VERIFICATION
METHOD M8015

Lab Name : EMAX
Instrument ID : GCTO43
GC Columm : SUPELCO WAX 10
Column size ID : 30MX0.53MMX0.25UM
Mid Conc Init LFID & Datetime: DC06004A 03/06/2006 14:11
Conc Cont LFID & Datetime: DC06007A 03/06/2006 15:04
CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
METHANOL	1.008	0.982	1.034	10.0	9735.5	103117	10.59	6		15
ETHANOL	1.225	1.196	1.254	10.0	16319.3	164274	10.07	1		15

ME43C06.MET

03/08/06

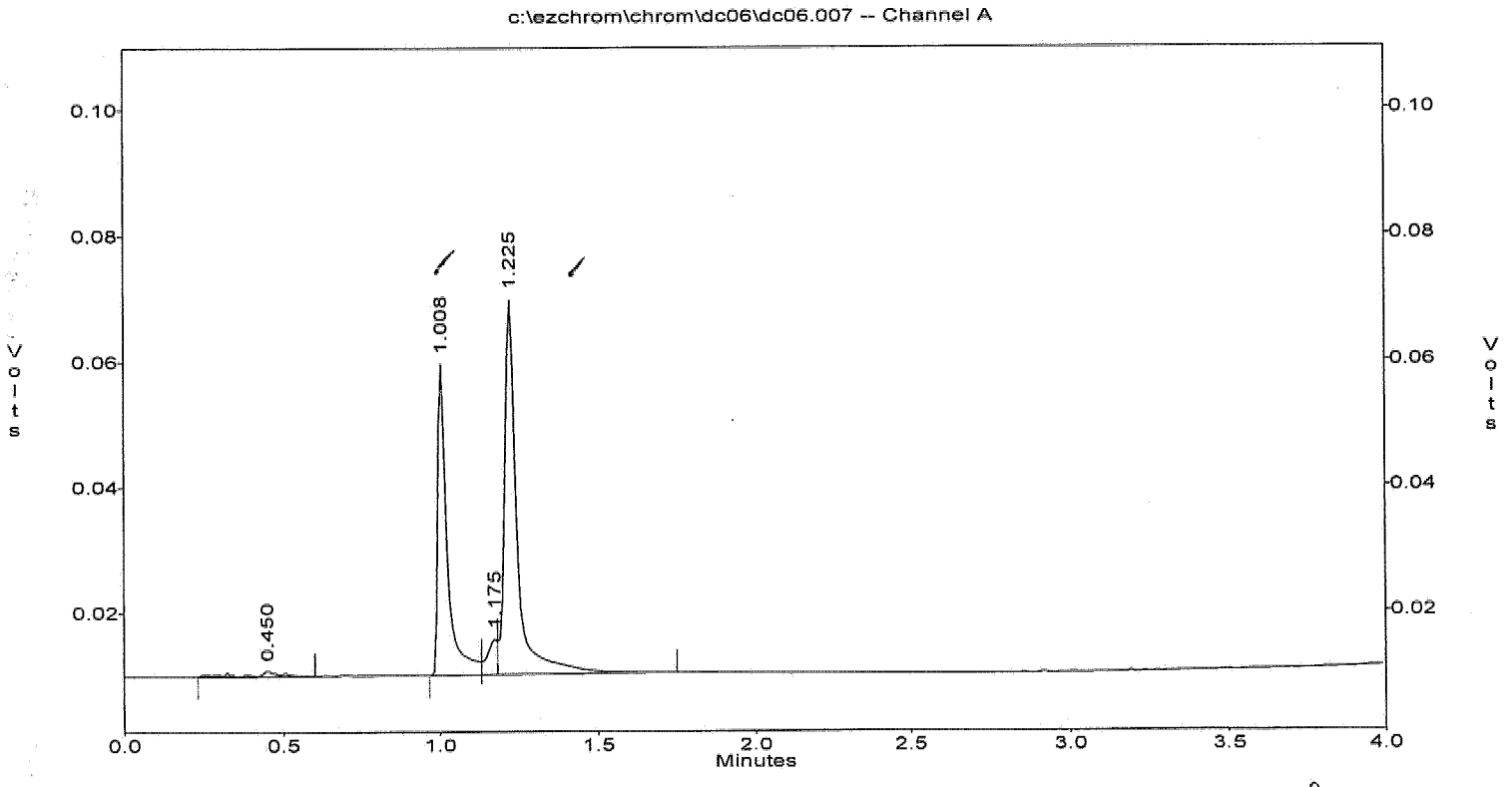
5080

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc06\dc06.007
Method : c:\ezchrom\methods\me43c06.met
Sample ID : IME43C0601 10PPM
Acquired : Mar 06, 2006 15:04:40
Printed : Mar 06, 2006 15:11:45
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
2	METHANOL	1.008	103117	9735.5	10.6
4	ETHANOL	1.225	164274	16319.3	10.1



03/08

5081

DAILY CALIBRATION

CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
Instrument ID : GCTO43
GC Columm : SUPELCO WAX 10
Column size ID : 30MX0.53MMX0.25UM
Mid Conc Init LFID & Datetime: DC06004A 03/06/2006 14:11
Conc Cont LFID & Datetime: DC17002A 03/17/2006 08:42
CONC UNIT : ppm

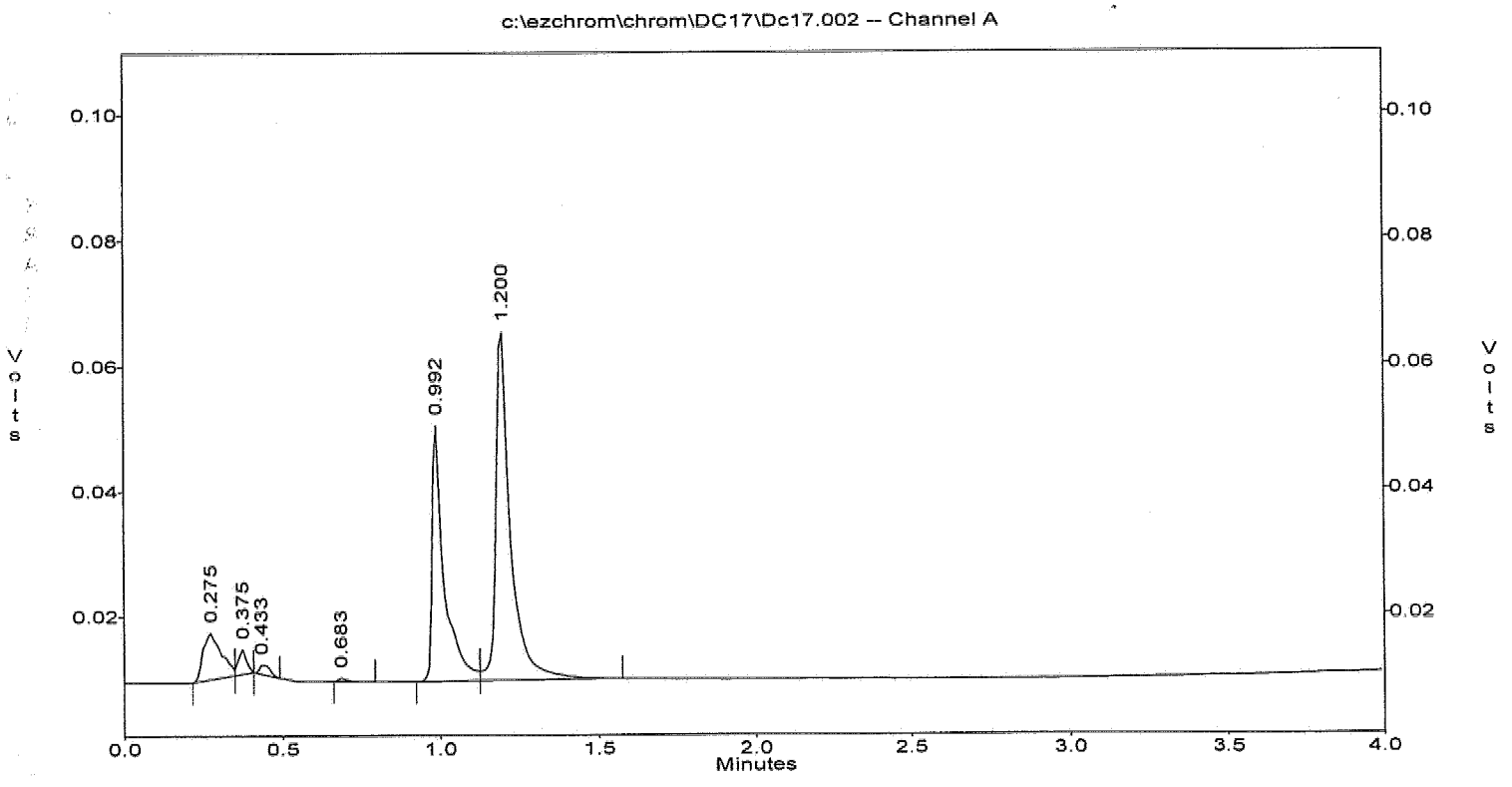
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
METHANOL	0.992	0.966	1.018	10.0	9735.5	106767	10.97	10		15
ETHANOL	1.200	1.171	1.229	10.0	16319.3	178011	10.91	9		15

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC17\Dc17.002
Method : c:\ezchrom\methods\Me43c06.met
Sample ID : CME43C06036 10PPM
Acquired : Mar 17, 2006 08:42:32
Printed : Mar 17, 2006 08:46:33
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
5	METHANOL	0.992	106767	9735.5	11.0
6	ETHANOL	1.200	178011	16319.3	10.9



CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
Instrument ID : GCTO43
GC Column : SUPELCO WAX 10
Column size ID : 30MX0.53MMX0.25UM
Mid Conc Init LFID & Datetime: DC06004A 03/06/2006 14:11
Conc Cont LFID & Datetime: DC17010A 03/17/2006 10:48
CONC UNIT : ppm

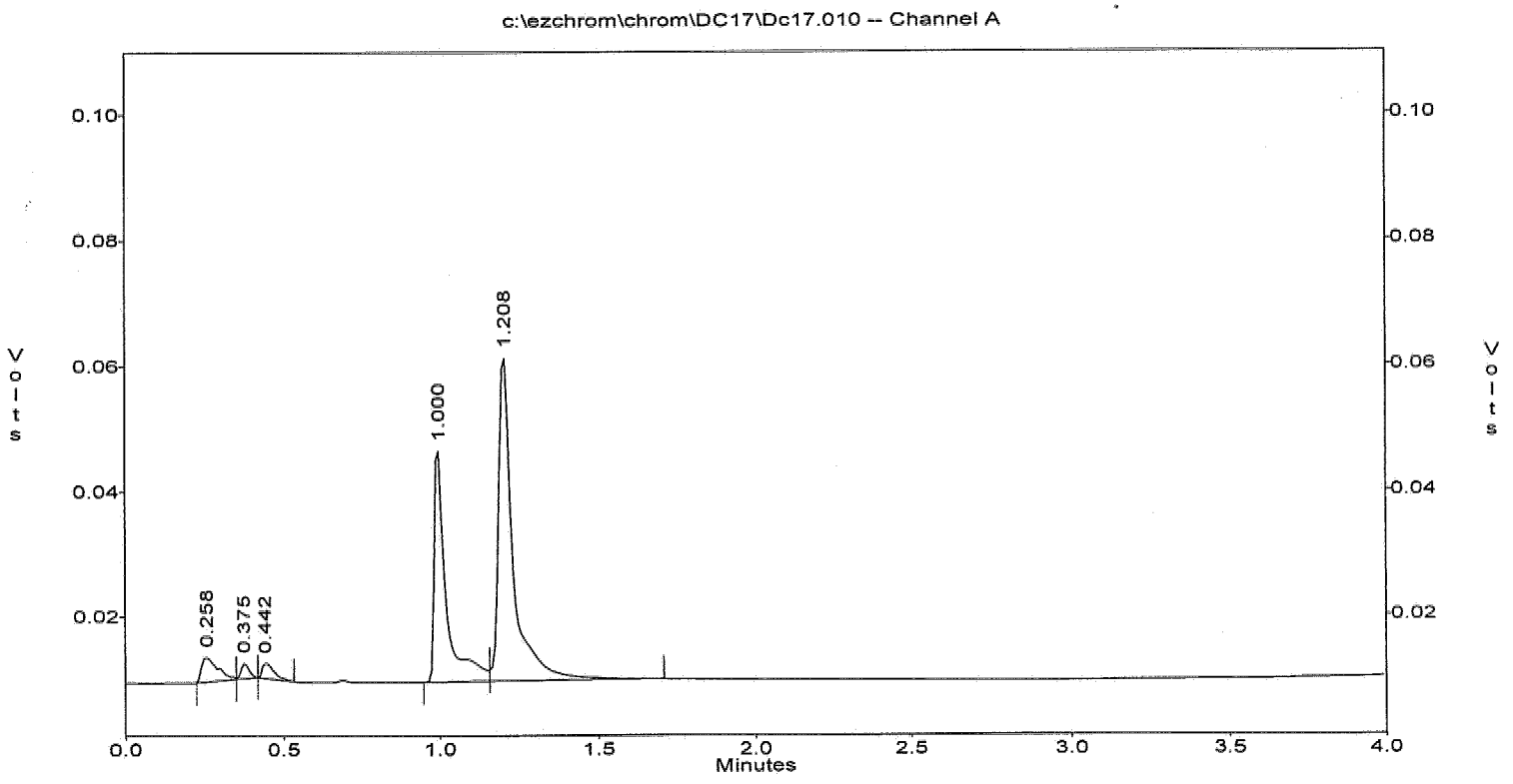
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
METHANOL	1.000	0.974	1.026	10.0	9735.5	97587	10.02	0		15
ETHANOL	1.208	1.179	1.237	10.0	16319.3	165411	10.14	1		15

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC17\Dc17.010
Method : c:\ezchrom\methods\Me43c06.met
Sample ID : CME43C06037 10PPM
Acquired : Mar 17, 2006 10:48:54
Printed : Mar 17, 2006 10:52:56
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
4	METHANOL	1.000	97587	9735.5	10.0
5	ETHANOL	1.208	165411	16319.3	10.1



ANALYTICAL LOGS

ANALYSIS RUN LOG FOR TPH

SOP ☐ EMAX-M8015D Revision No. 3 ☐ EMAX-LUFTE Revision No. 3 ☑ Alcohols Book # A43-012

Starting Date: 3/6/06 Time: 13:13 Ending Date: 3/6/06 Time: 17:41

ANALYTICAL BATCH DCC007

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix S	Matrix W	Notes
	DC06.001	IB43C012				
	2	ME43C0601				~~10~~ 1ppm xp 3/6/06
	3	2				5
	4	3				10
	5	4				15
	6	5				20
	7	IME43C0601				10
MEC002W	8	MEC002C0B	1		✓	
	9	L				
	10	C				
	11	MALVER-01				1ppm
	12	02				0.5ppm
	13	06C032-04				
	14	04D				
	15	CME43C06012				Bad inj.
	16	NO Injection				
	17	CME43C06012				10ppm

xp 3/6/06

Instrument No:	43
INITIAL CALIBRATION REFERENCE	

	ID	Date
Diesel		
Motor oil		
JP 5		
Alcohols	ME43C06	3/6/06

Standards

Name	ID	Conc. (mg/L)
CH_2Cl_2 xp 3/6/06	—	—
~~Dec~~ /Ical	SS3C-07-11-1	1-200ppm
~~LCS~~ /ICV	SS3C-07-11-2	10ppm
Dec	SS3C-07-10-2	100
LCS	SS3C-07-10-3	↓

Electronic Data Archival

Location	Date
☐ EZC_2_Diesel	
☐	

Comments:

Analyzed By: xp

Disposed on: 3/6/06 By: xp

This page is checked during the data review process.

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

ANALYSIS RUN LOG FOR TPH

SOP ☐ EMAX-M8015D Revision No. 3 ☐ EMAX-LUFTE Revision No. 3 ☑ Methanol / Ethanol. Book # A43-012

Starting Date: 3/17/06 Time: 08:25 Ending Date: 3/17/06 Time: 10:48

ANALYTICAL BATCH DC17.002

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix S	Matrix W	Notes
	DC17.001	IBM3C07316 XP 03/17/06				
	2	CMEM3C06036	10			10 ppm
MEC009W	3	MEC009WB	1		✓	
↓	4	↓ L	10 XP 3/17/06		↓	10 ppm (10x)
	5	↓ C	↓		↓	↓
	6	06C119-01	1		✓	pH 7
	7	↓ 02	↓		↓	↓
	8	06C127-09				
	9	↓ 10	↓		↓	↓
	10	CMEM3C09037	10			10 ppm
			XP 3/17/06			

Instrument No:	43

INITIAL CALIBRATION REFERENCE

	ID	Date
Diesel		
Motor oil		
JP 5		
Alcohols	MEM3C06	3/6/06

Standards

Name	ID	Conc. (mg/L)
CH_2Cl_2	—	—
DCC	SS3C-07-10-2	100
LCS	SS3C-07-10-3	↓
H_2O	organic free	—

Electronic Data Archival

Location	Date
☐ EZC_2_Diesel	
☐	

Comments:

Analyzed By: XP

Disposed on: 3/17/06 By: XP

This page is checked during the data review process.

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

LABORATORY REPORT FOR

ENSR

UPGRADIENT INVESTIGATION, TRONOX

METHOD M8015
ETHYLENE GLYCOL BY GC

SDG#: 06C119

CASE NARRATIVE

CLIENT: ENSR

PROJECT: UPGRADIENT INVESTIGATION, TRONOX

SDG: 06C119

METHOD M8015
ETHYLENE GLYCOL BY GC

Two (2) water samples were received on 03/14/06 for Ethylene Glycol by GC analysis by Method M8015 in accordance with USEPA SW846, 3rd Ed.

1. Holding Time

Analytical holding time was met. Water samples were not preserved.

2. Calibration

Initial calibration was five points. %RSD was within 20%. Continuing calibrations were carried out within 10-sample interval. All recoveries were within 85-115%.

3. Method Blank

Method blank was free of contamination at the reporting limit.

4. Lab Control Sample/Lab Control Sample Duplicate

All recoveries were within QC limits.

5. Matrix Spike/Matrix Spike Duplicate

No sample was requested for spike.

6. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
ETHYLENE GLYCOL

Client : ENSR
Project : UPGRADIENT INVESTIGATION, TRONOX

SDG NO. : 06C119
Instrument ID : GCT043

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	EGC008WB	1	NA	03/16/0618:14	03/16/0618:14	DC16030A	DC16027A	EGC008W	Method Blank
LCS1W	EGC008WL	1	NA	03/16/0617:46	03/16/0617:46	DC16028A	DC16027A	EGC008W	Lab Control Sample (LCS)
LCD1W	EGC008WC	1	NA	03/16/0617:57	03/16/0617:57	DC16029A	DC16027A	EGC008W	LCS Duplicate
TR-10A	C119-01	1	NA	03/16/0618:33	03/16/0618:33	DC16031A	DC16027A	EGC008W	Field Sample
PUMP BLANK	C119-02	1	NA	03/16/0618:42	03/16/0618:42	DC16032A	DC16027A	EGC008W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD M8015
ETHYLENE GLYCOL

Client	: ENSR	Date Collected:	03/13/06
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/14/06
Batch No.	: 06C119	Date Extracted:	03/16/06 18:33
Sample ID:	TR-10A	Date Analyzed:	03/16/06 18:33
Lab Samp ID:	C119-01	Dilution Factor:	1
Lab File ID:	DC16031A	Matrix :	WATER
Ext Btch ID:	EGC008W	% Moisture :	NA
Calib. Ref.:	DC16027A	Instrument ID :	GCT043

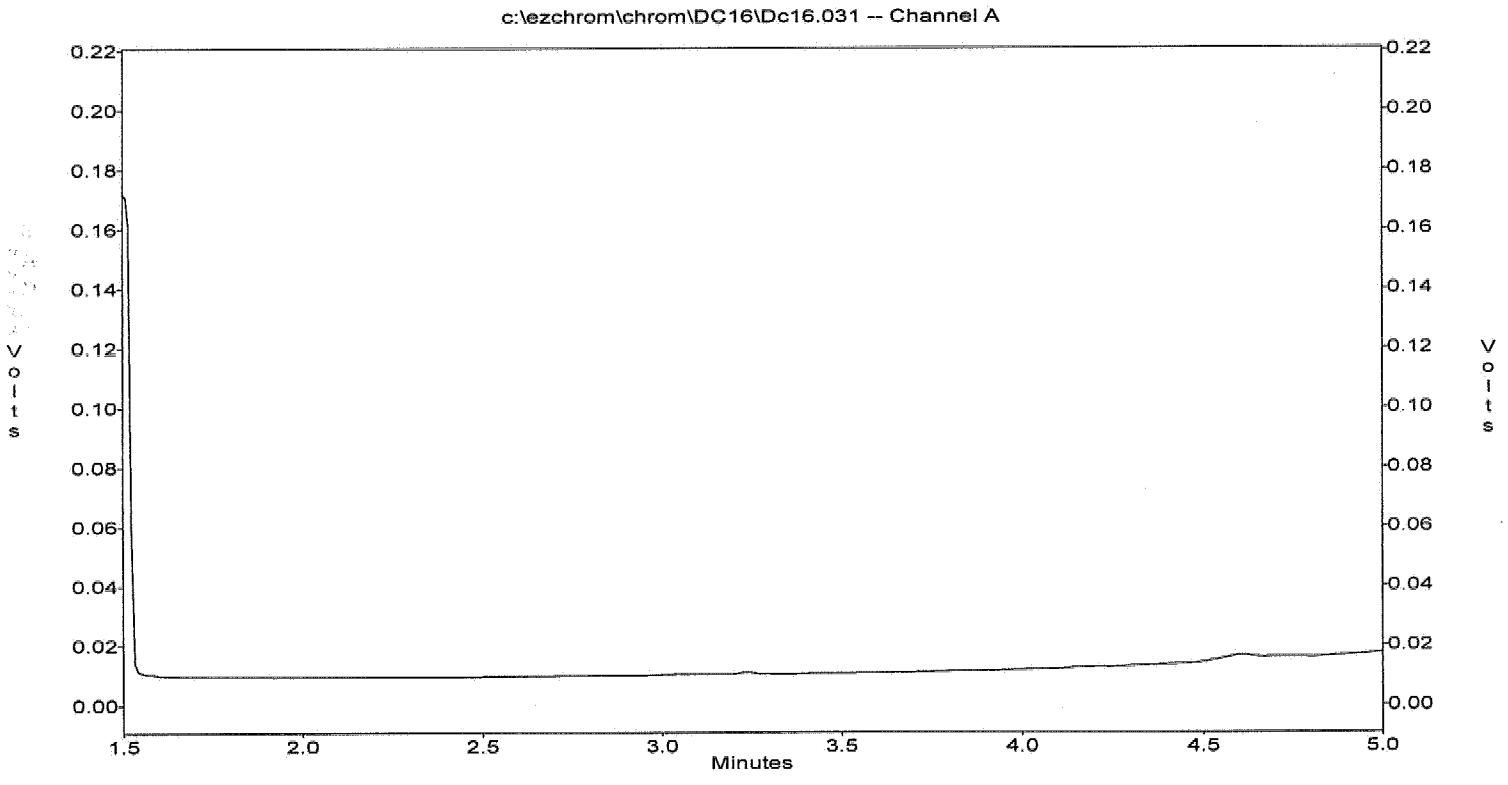
PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
ETHYLENE GLYCOL	ND	10	5

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC16\Dc16.031
Method : c:\ezchrom\methods\Eg43c10.met
Sample ID : 06C119-01
Acquired : Mar 16, 2006 18:33:52
Printed : Mar 16, 2006 18:40:47
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
--	Ethylene Glycol	2.975	0	0.0	0.0



METHOD M8015
ETHYLENE GLYCOL

Client	: ENSR	Date Collected:	03/13/06
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/14/06
Batch No.	: 06C119	Date Extracted:	03/16/06 18:42
Sample ID	: PUMP BLANK	Date Analyzed:	03/16/06 18:42
Lab Samp ID	: C119-02	Dilution Factor:	1
Lab File ID	: DC16032A	Matrix	: WATER
Ext Btch ID	: EGC008W	% Moisture	: NA
Calib. Ref.	: DC16027A	Instrument ID	: GCT043

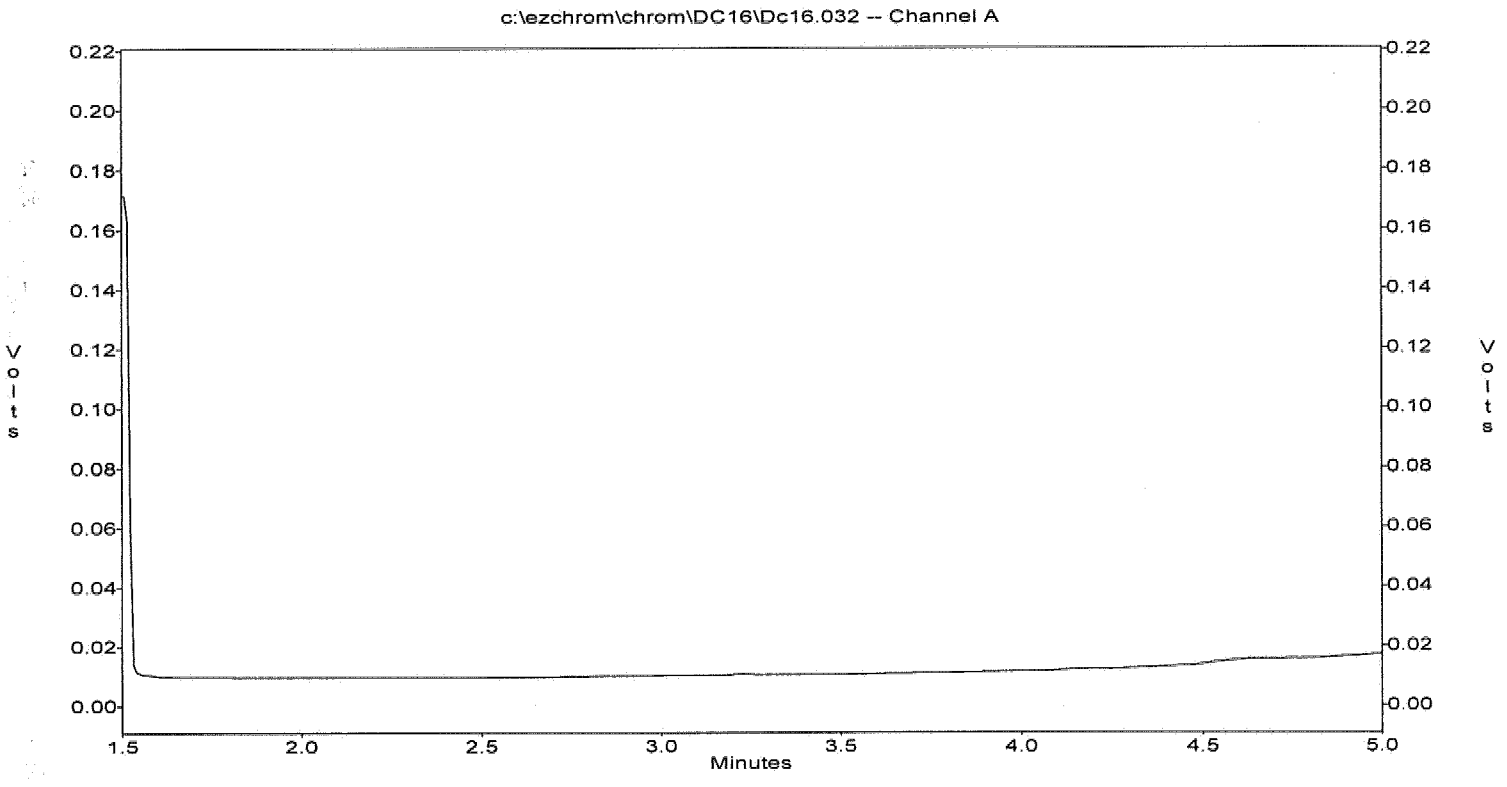
PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
ETHYLENE GLYCOL	ND	10	5

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC16\Dc16.032
Method : c:\ezchrom\methods\Eg43c10.met
Sample ID : 06C119-02
Acquired : Mar 16, 2006 18:42:38
Printed : Mar 16, 2006 18:49:39
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
--	Ethylene Glycol	2.975	0	0.0	0.0



QC SUMMARIES

METHOD M8015
ETHYLENE GLYCOL

Client	: ENSR	Date Collected:	NA
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/16/06
Batch No.	: 06C119	Date Extracted:	03/16/06 18:14
Sample ID:	MBLK1W	Date Analyzed:	03/16/06 18:14
Lab Samp ID:	EGC008WB	Dilution Factor:	1
Lab File ID:	DC16030A	Matrix :	WATER
Ext Btch ID:	EGC008W	% Moisture :	NA
Calib. Ref.:	DC16027A	Instrument ID :	GCT043

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
ETHYLENE GLYCOL	ND	10	5

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
BATCH NO.: 06C119
METHOD: METHOD M8015

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1W
LAB SAMP ID: EGC008WB EGC008WL EGC008WC
LAB FILE ID: DC16030A DC16028A DC16029A
DATE EXTRACTED: 03/16/0618:14 03/16/0617:46 03/16/0617:57 DATE COLLECTED: NA
DATE ANALYZED: 03/16/0618:14 03/16/0617:46 03/16/0617:57 DATE RECEIVED: 03/16/06
PREP. BATCH: EGC008W EGC008W EGC008W
CALIB. REF: DC16027A DC16027A DC16027A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Ethylene Glycol	ND	50	52.2	104	50	61.6	123	16	40-140	50

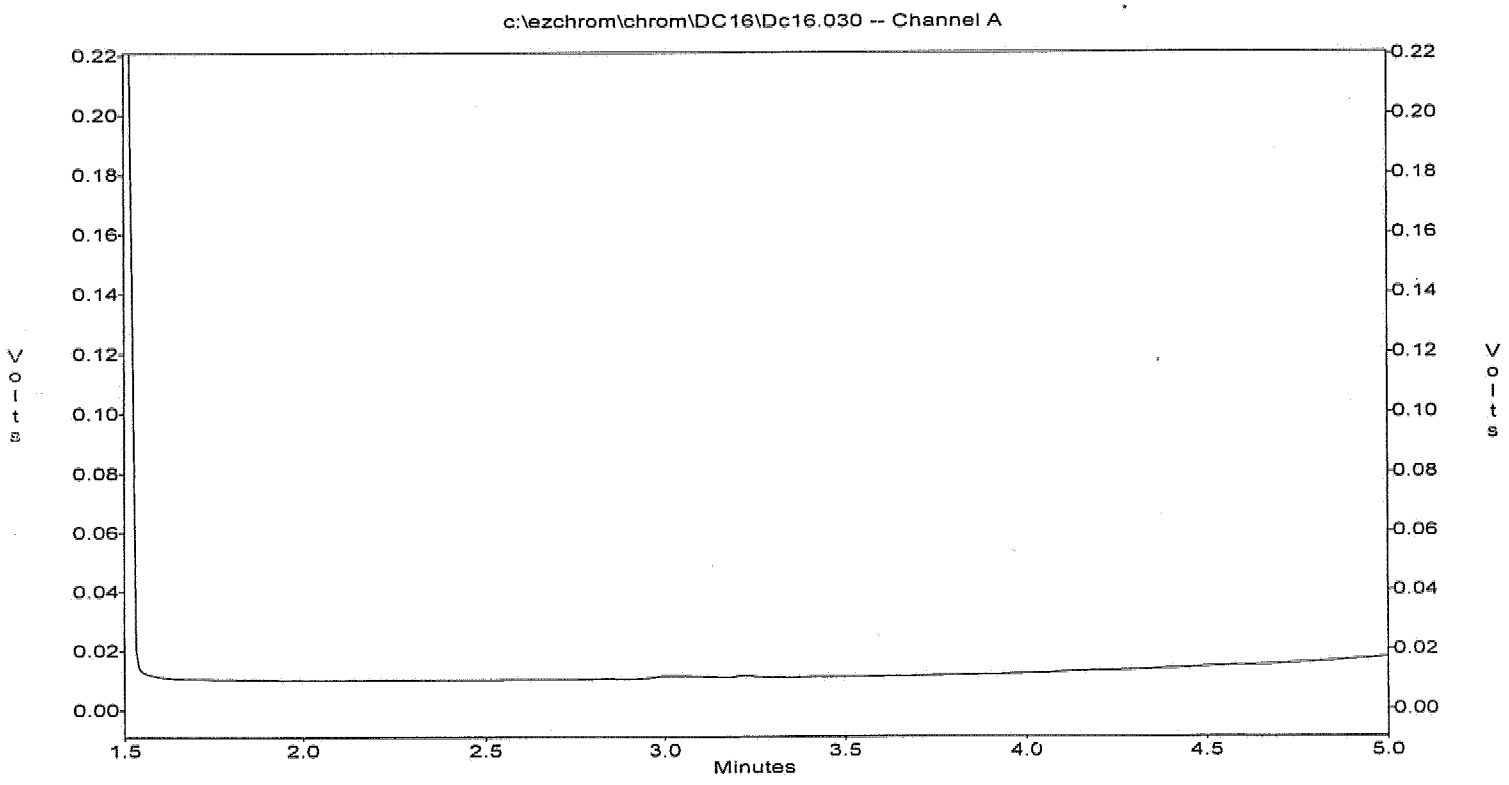
QC DATA

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC16\Dc16.030
Method : c:\ezchrom\methods\Eg43c10.met
Sample ID : EGC008WB
Acquired : Mar 16, 2006 18:14:37
Printed : Mar 16, 2006 18:24:38
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
--	Ethylene Glycol	2.975	0	0.0	0.0

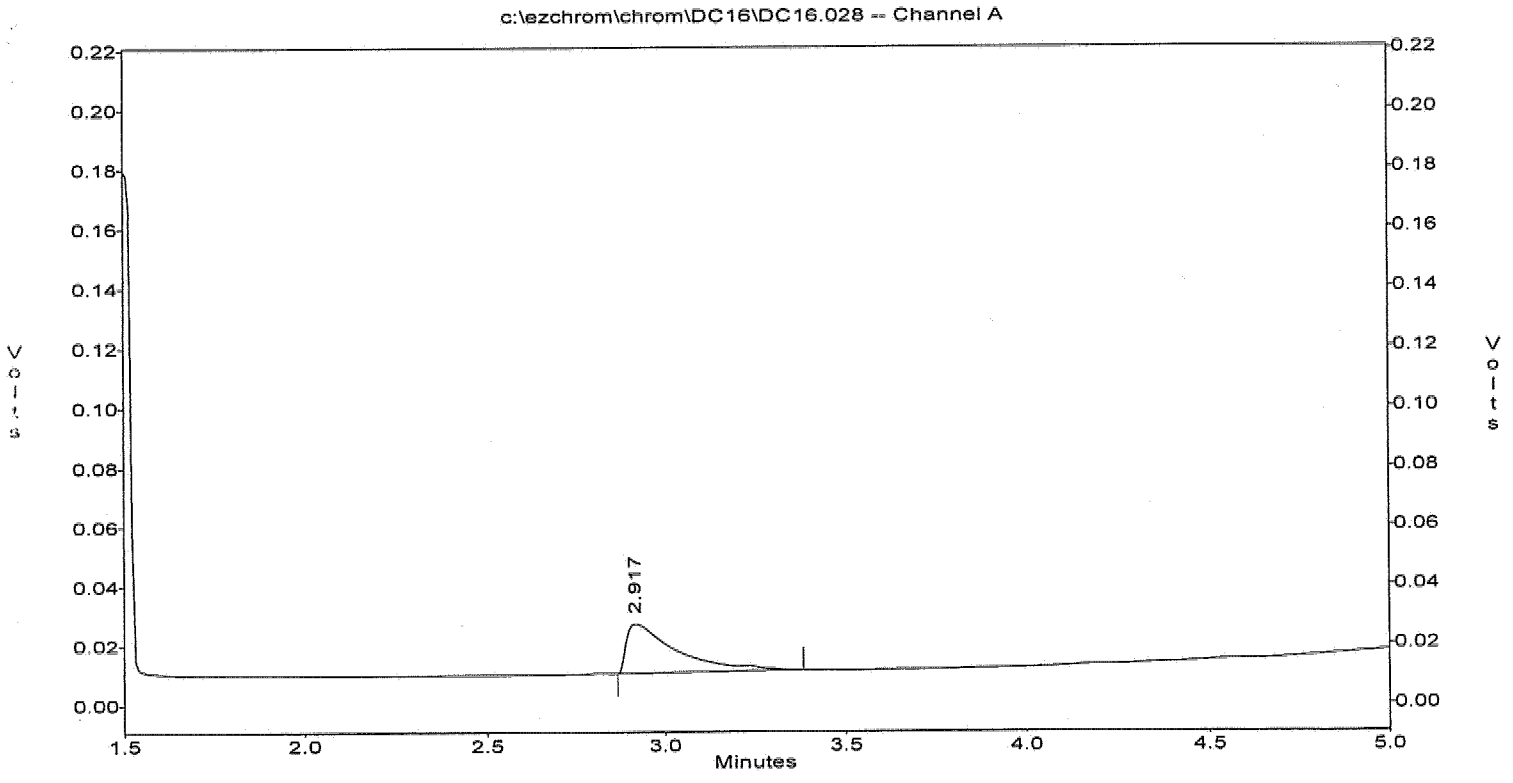


EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC16\DC16.028
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : EGC008WL
Acquired : Mar 16, 2006 17:46:42
Printed : Mar 16, 2006 17:58:47
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
1	Ethylene Glycol	2.917	159721	3058.1	52.2

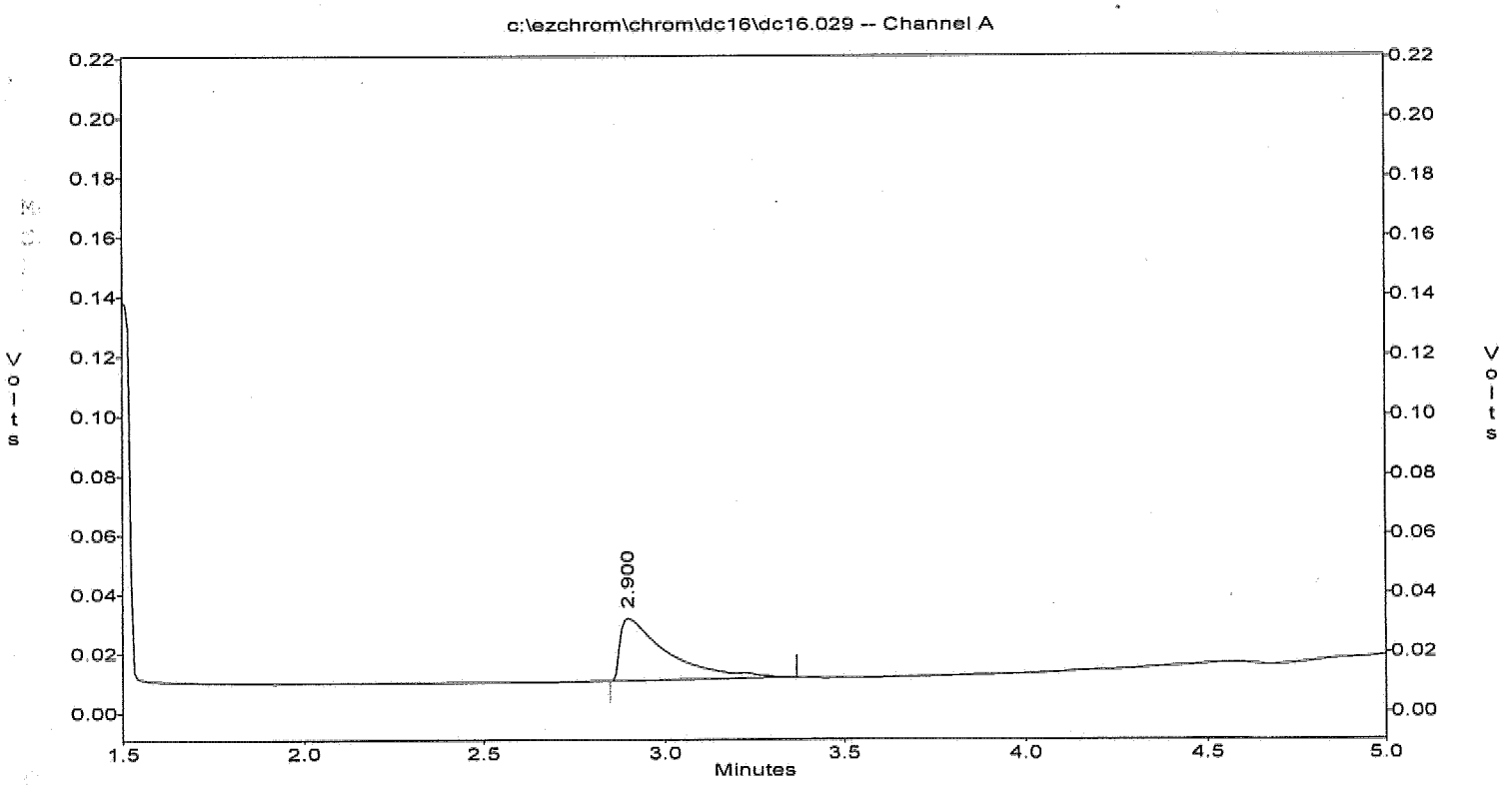


EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc16\dc16.029
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : EGC008WC
Acquired : Mar 16, 2006 17:57:26
Printed : Mar 16, 2006 18:11:01
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
1	Ethylene Glycol	2.900	188409	3058.1	61.6



INITIAL CALIBRATION

INITIAL CALIBRATION
METHOD M8015EG

Lab Name : EMAX Inc
Instrument ID : GCTO43
GC Column : SUPELCO WAX 10
Column size ID : 30MX0.53MMX0.25UM
LFID & Datetime: DC10024A 03/10/06 16:45
LFID & Datetime: DC10025A 03/10/06 16:57
LFID & Datetime: DC10026A 03/10/06 17:12
LFID & Datetime: DC10029A 03/10/06 17:57
LFID & Datetime: DC10028A 03/10/06 17:39
CONC UNIT: ppm

COMPOUND	CONC X	CALIBRATION FACTORS (AREA or HEIGHT)/UNIT 1.00X	2.00X	5.00X	7.50X	10.00X	MEAN	%RSD
Ethylene Glycol	10.00	2634.70	2679.95	3055.42	3332.45	3588.02	3058.11	13.5

EG43C10.MET

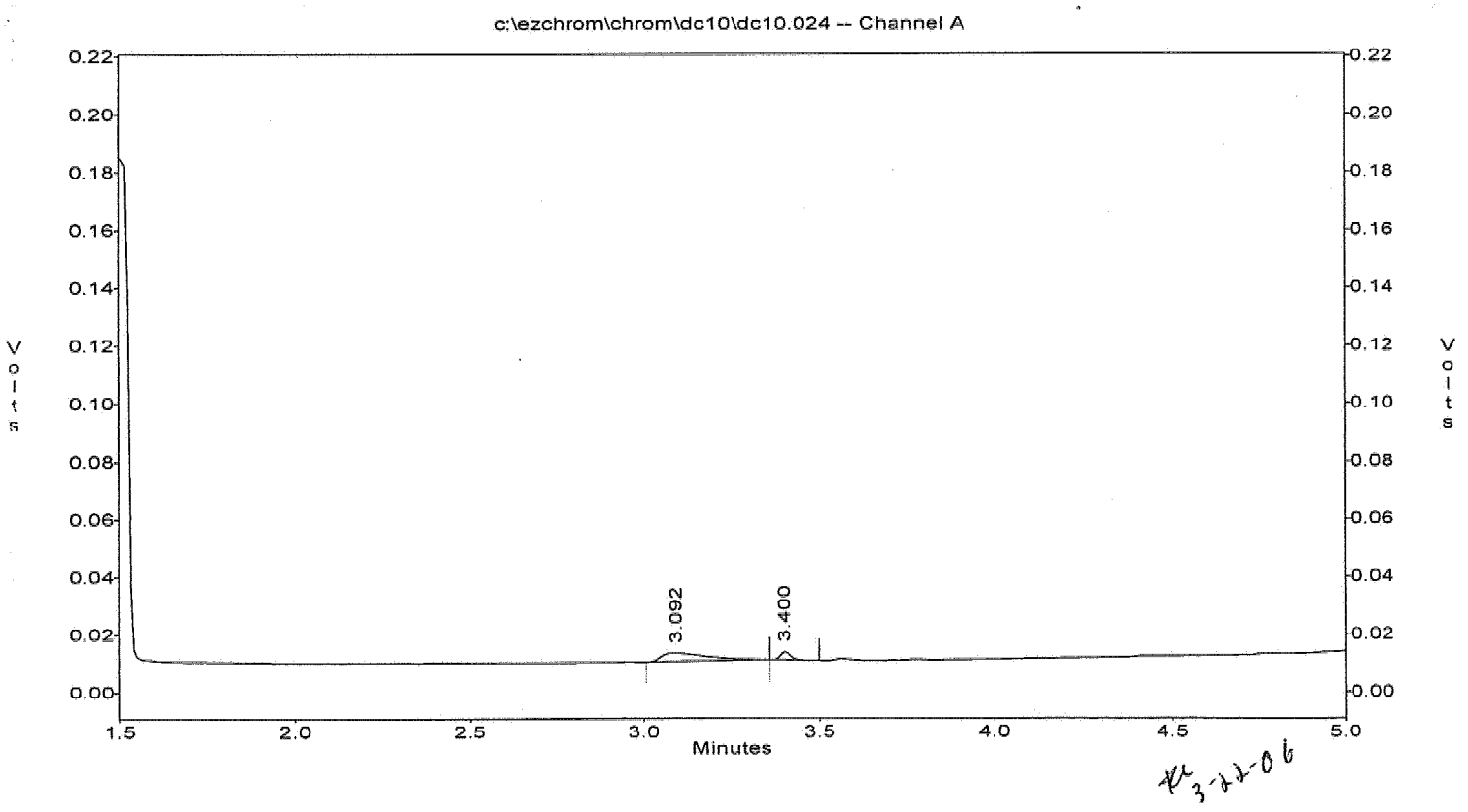
KV 3-22-06

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc10\dc10.024
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : EG43C1001 10PPM
Acquired : Mar 10, 2006 16:45:04
Printed : Mar 15, 2006 17:09:13
User : LUCY

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
1	Ethylene Glycol	3.092	26347	3058.1	10.0



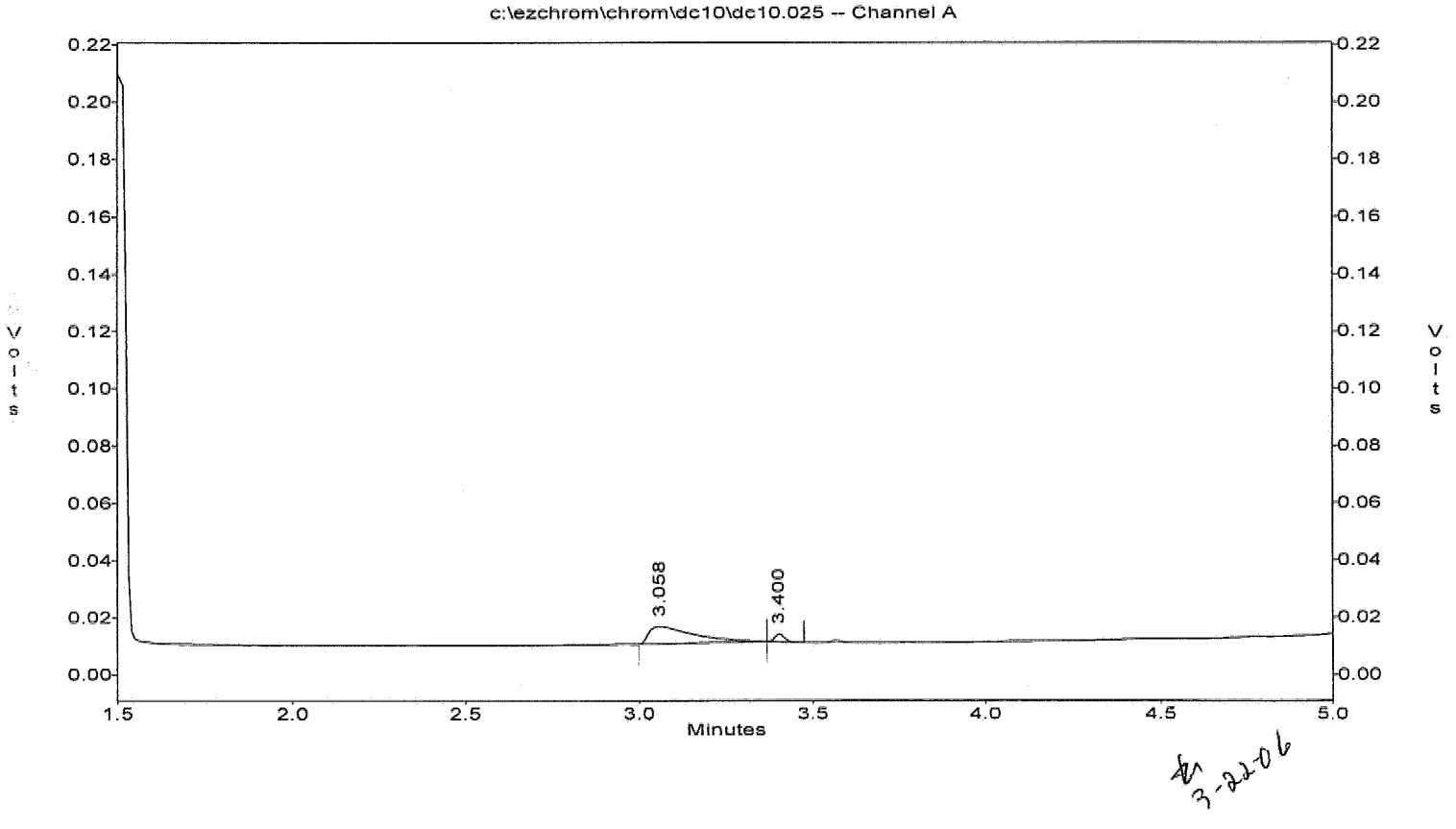
3-22-06

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc10\dc10.025
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : EG43C1002 20PPM
Acquired : Mar 10, 2006 16:57:52
Printed : Mar 15, 2006 17:09:44
User : LUCY

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
1	Ethylene Glycol	3.058	53599	3058.1	20.0



3-22-06

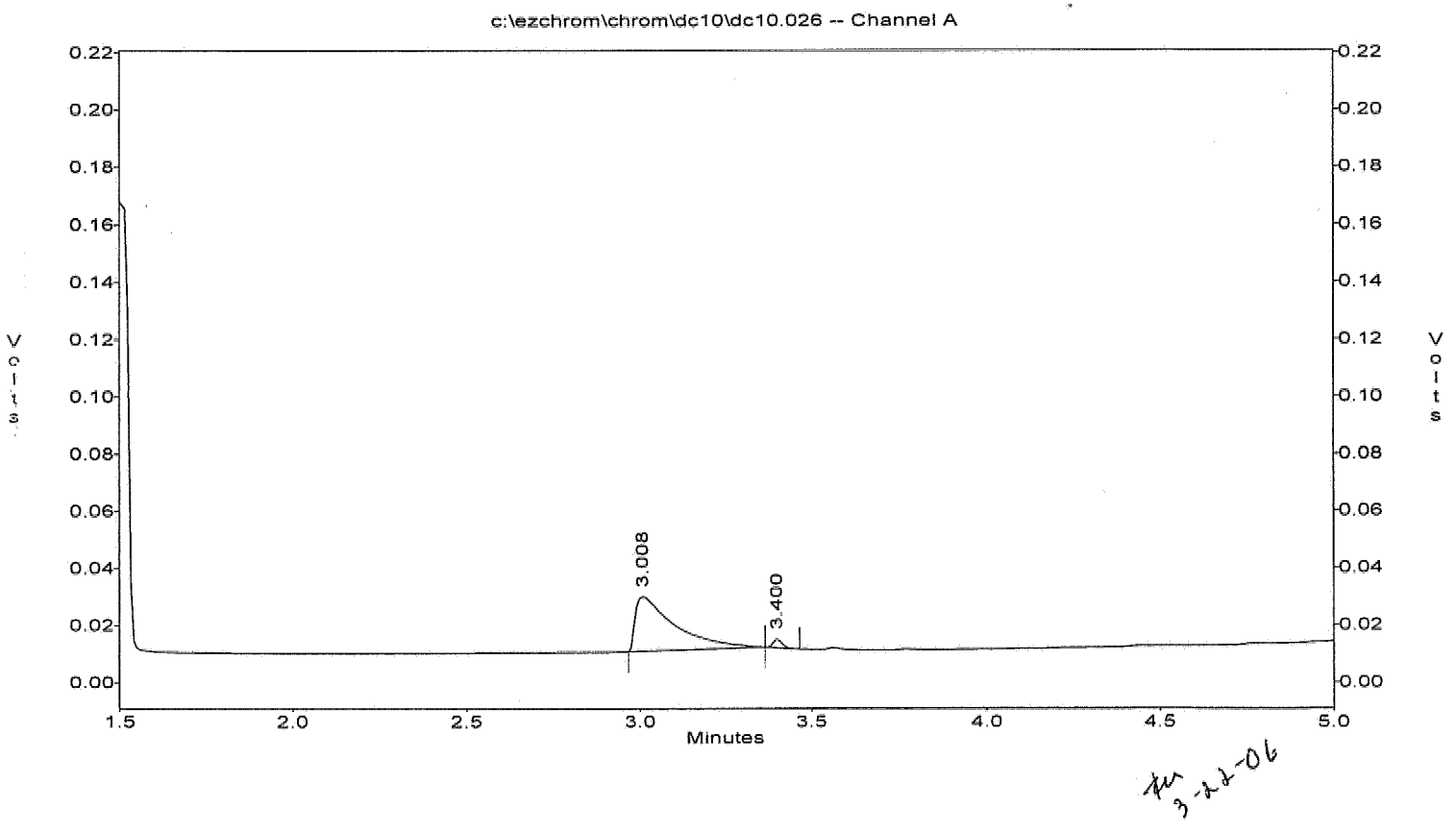
5108

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc10\dc10.026
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : EG43C1003 50PPM
Acquired : Mar 10, 2006 17:12:34
Printed : Mar 15, 2006 17:09:57
User : LUCY

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
1	Ethylene Glycol	3.008	152771	3058.1	50.0



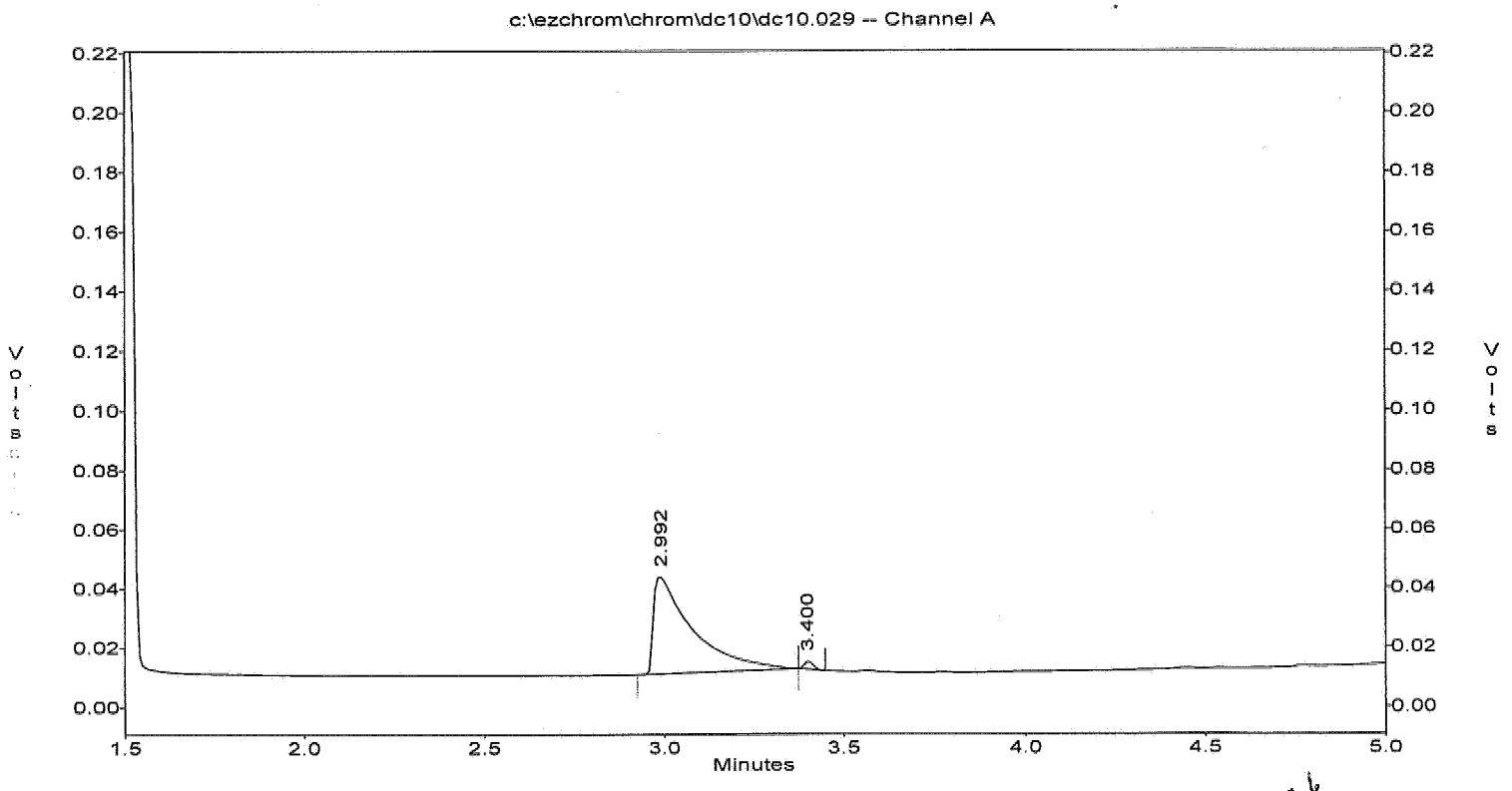
3-22-06

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc10\dc10.029
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : EG43C1004 75PPM
Acquired : Mar 10, 2006 17:57:02
Printed : Mar 15, 2006 17:10:07
User : LUCY

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	2.992	249934	3058.1	75.0



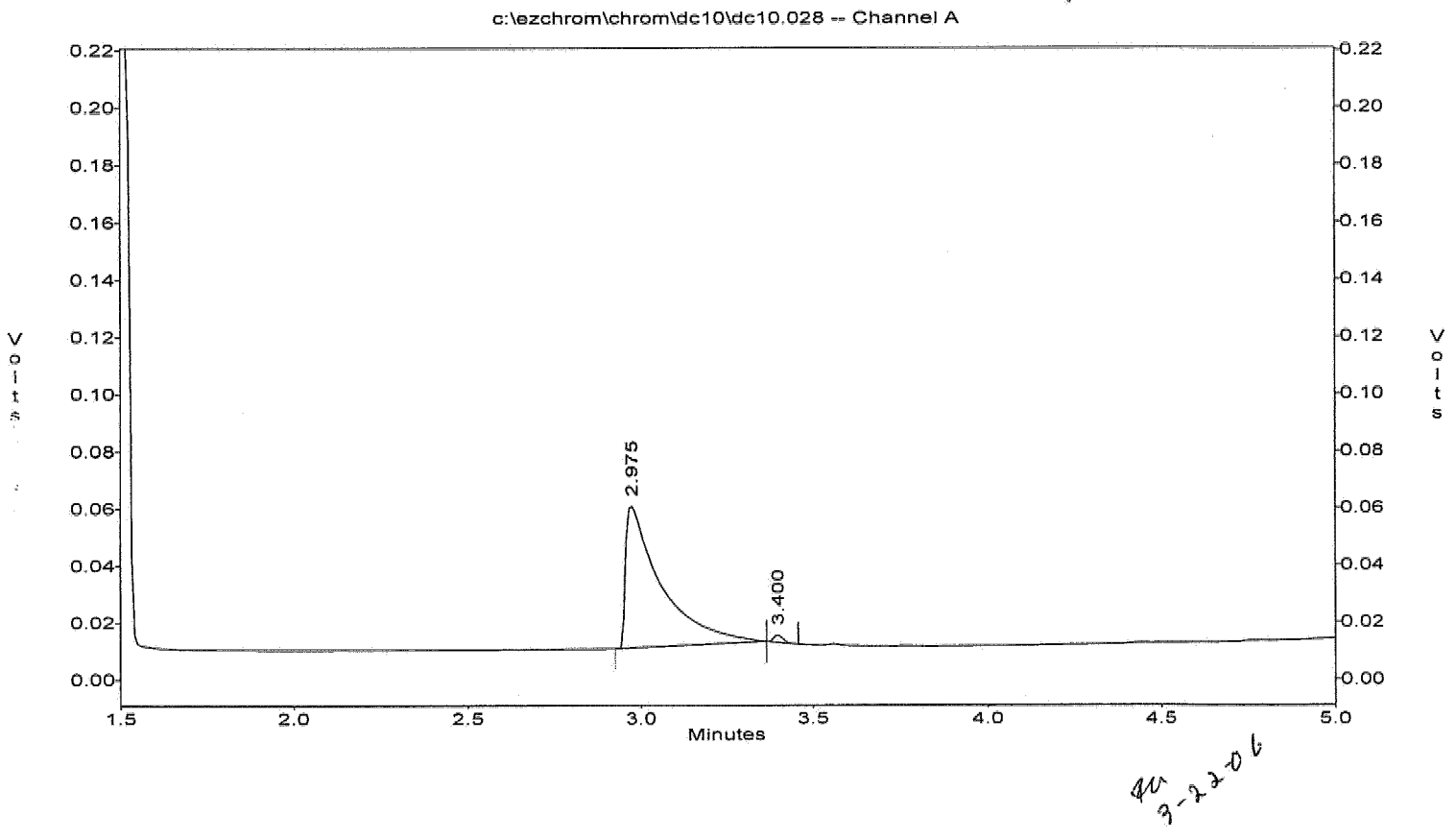
3-22-06

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc10\dc10.028
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : EG43C1005 100PPM
Acquired : Mar 10, 2006 17:39:51
Printed : Mar 15, 2006 17:10:18
User : LUCY

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
1	Ethylene Glycol	2.975	358802	3058.1	100.0



AV 3-22-06

5111

SECOND SOURCE

INITIAL CALIBRATION VERIFICATION
METHOD M8015EG

Lab Name : EMAX
Instrument ID : GCTO43
GC Columm : SUPELCO WAX 10
Column size ID : 30MX0.53MMX0.25UM
Mid Conc Init LFID & Datetime: DC10026A 03/10/2006 17:12
Conc Cont LFID & Datetime: DC10030A 03/10/2006 18:14
CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Ethylene Glycol	3.008	2.769	3.247	50.0	3058.1	174073	56.92	14		15

EG43C10.MET

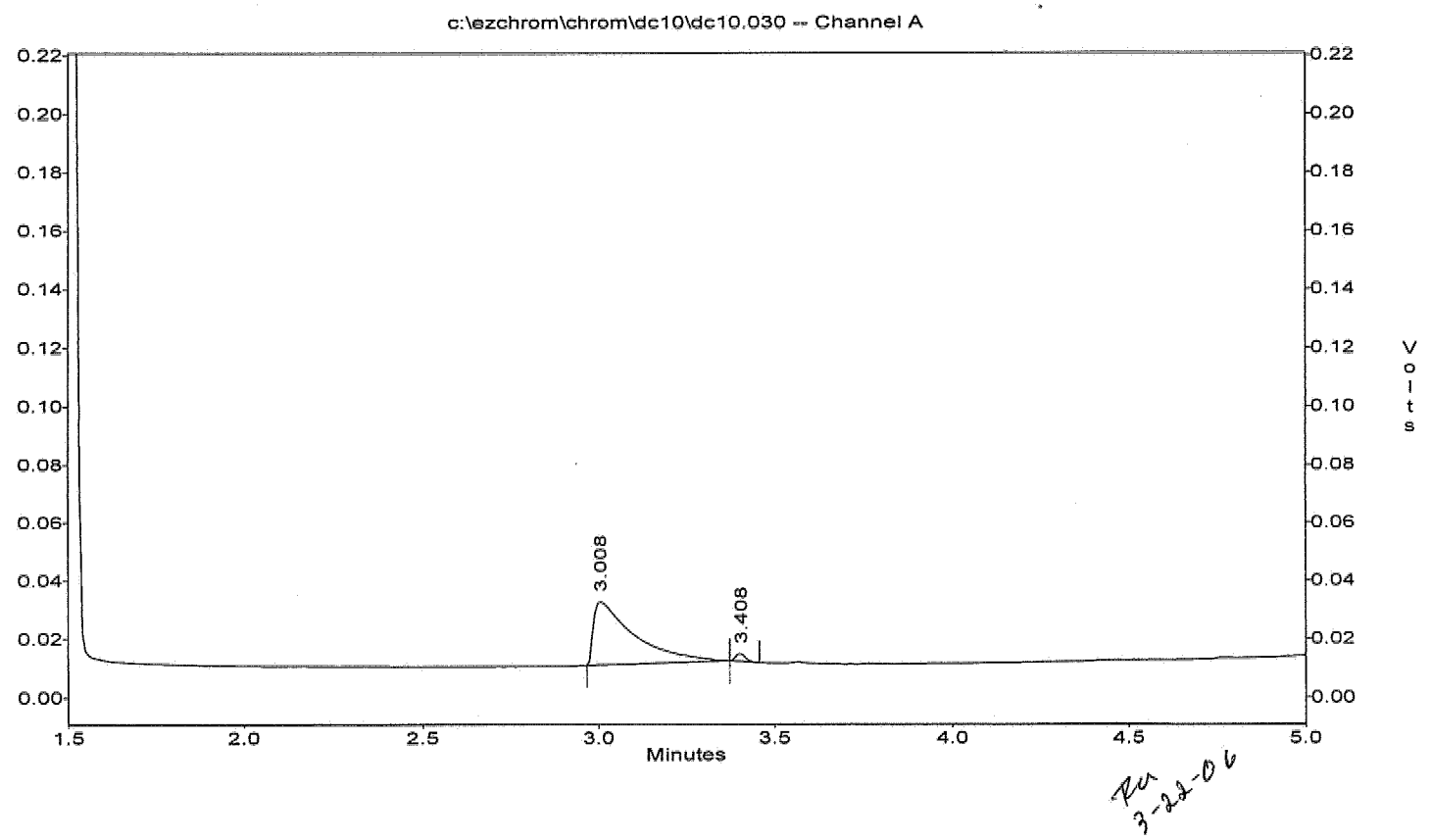
3-22-06

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc10\dc10.030
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : IEG43C1001 50PPM
Acquired : Mar 10, 2006 18:14:40
Printed : Mar 15, 2006 17:10:38
User : LUCY

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
1	Ethylene Glycol	3.008	174073	3058.1	56.9



RC 3-22-06

5114

DAILY CALIBRATION

CONTINUE CALIBRATION
METHOD M8015EG

Lab Name : EMAX
Instrument ID : GCTO43
GC Columm : SUPELCO WAX 10
Column size ID : 30MX0.53MMX0.25UM
Mid Conc Init LFID & Datetime: DC10026A 03/10/2006 17:12
Conc Cont LFID & Datetime: DC16027A 03/16/2006 17:29
CONC UNIT : ppm

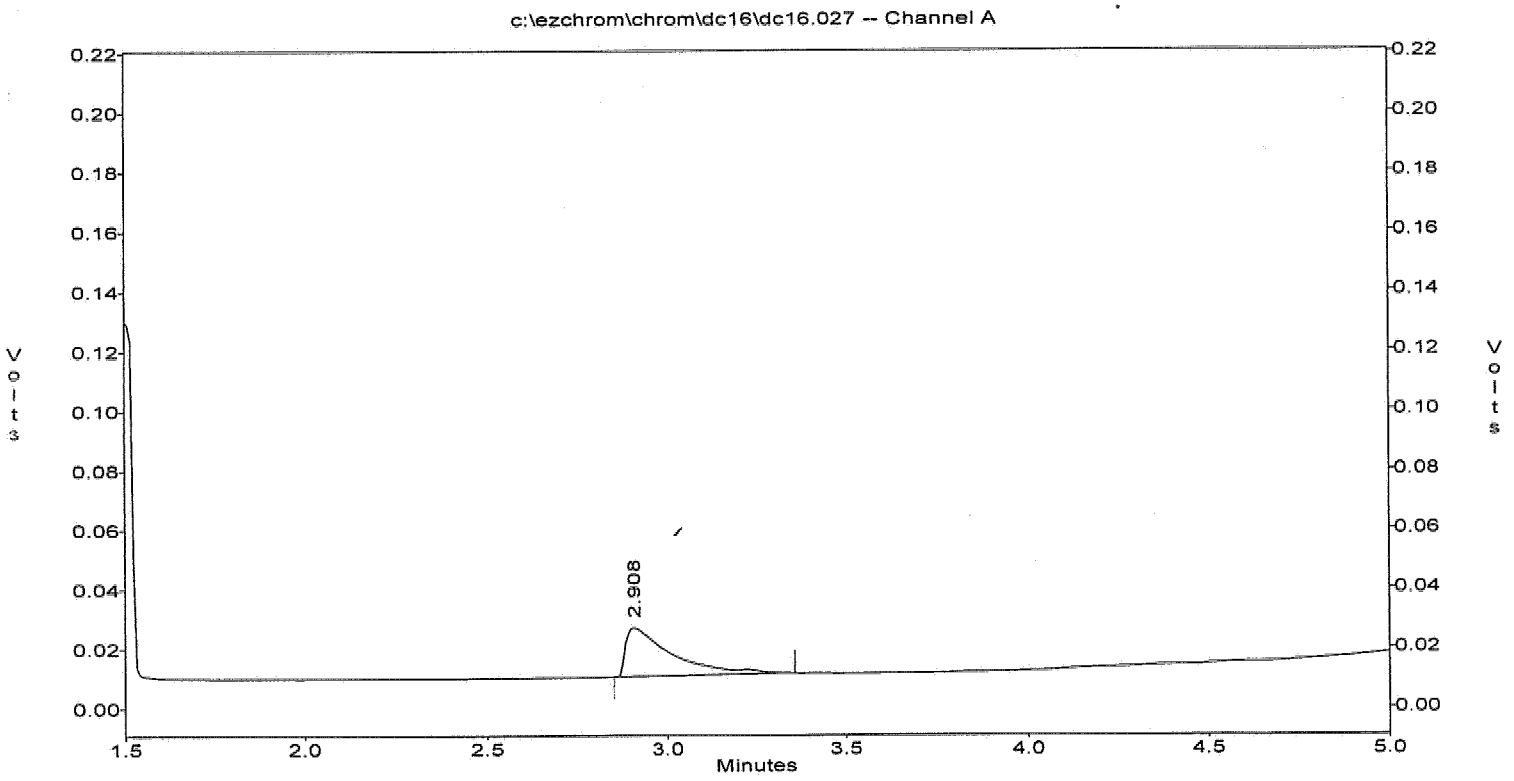
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Ethylene Glycol	2.908	2.669	3.147	50.0	3058.1	148360	48.51	-3		15

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc16\dc16.027
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : CEG43C10034
Acquired : Mar 16, 2006 17:29:14
Printed : Mar 16, 2006 17:42:53
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
1	Ethylene Glycol	2.908	148360	3058.1	48.5



CONTINUE CALIBRATION
METHOD M8015EG

Lab Name : EMAX
Instrument ID : GCTO43
GC Columm : SUPELCO WAX 10
Column size ID : 30MX0.53MMX0.25UM
Mid Conc Init LFID & Datetime: DC10026A 03/10/2006 17:12
Conc Cont LFID & Datetime: DC16033A 03/16/2006 18:50
CONC UNIT : ppm

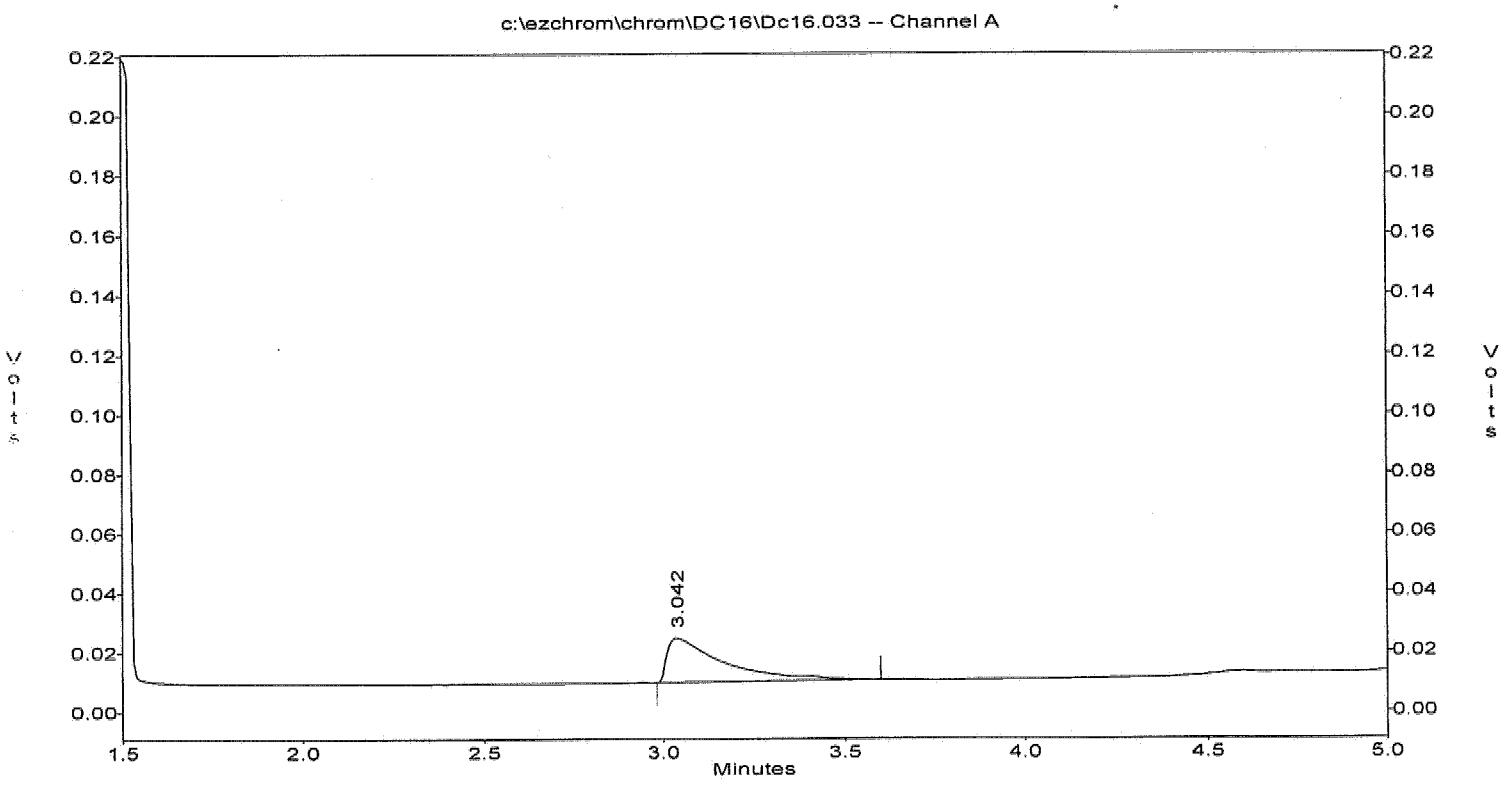
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Ethylene Glycol	3.042	2.803	3.281	50.0	3058.1	158360	51.78	4		15

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC16\Dc16.033
Method : c:\ezchrom\methods\Eg43c10.met
Sample ID : CEG43C10035
Acquired : Mar 16, 2006 18:50:57
Printed : Mar 16, 2006 18:57:58
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
1	Ethylene Glycol	3.042	158360	3058.1	51.8



ANALYTICAL LOGS

ANALYSIS RUN LOG FOR TPH

SOP ☐ EMAX-M8015D Revision No. 3 ☐ EMAX-LUFTE Revision No. 3 ☑ Ethylene Glycol Book # A43-012

Starting Date: 3/10/06 Time: 16:33 Ending Date: 3/10/06 Time: 18:14

ANALYTICAL BATCH: NA

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix S	Matrix W	Notes
NA	DC10.023	IB43C021	NA			
	24	EG43C1001				10 ppm
	25	02				20
	26	03				50
	27	04				75 → Bad inj.
	28	05				100
	29	04				75
	30	IEG43C1001				50

KP 3/10/06

Instrument No:	43	
INITIAL CALIBRATION REFERENCE		
	ID	Date
Diesel		
Motor oil		
JP 5		
Alcohols		
~~Ethylene Glycol~~	EG43C10	3/10/06
Standards		
Name	ID	Conc. (mg/L)
CH_2Cl_2	—	—
DCC/Ical	SS3C-07-13-3	10 - 100
LCS/ICV	SS3C-07-14-1	50
Electronic Data Archival		
Location		Date
☑ EZC_2_Diesel		3/13/06
☐		

Comments:

Analyzed By: KP

Disposed on: 3/10/06 By: KP

This page is checked during the data review process.

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

ANALYSIS RUN LOG FOR TPH

SOP ☐ EMAX-M8015D Revision No. 3 ☐ EMAX-LUFTE Revision No. 3 ☑ Ethylene Glycol Book # A43-012

Starting Date: 3/16/06 Time: 17:18 Ending Date: 3/16/06 Time: 18:50

ANALYTICAL BATCH DC16 027

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix S	Matrix W	Notes
	DC16.026	IBU3C034				
	27	CEG43C10034	2			50 ppm
EGC008W	28	EGC008W BL XP 3/16/06	1	XP 3/16/06 X	✓	
↓	29	↓ C	↓		↓	50 ppm (20x)
	30	↓ B				↓
	31	06C119-01				pH 7
	32	↓ 02				↓
	33	CEG43C10035	2			50ppm

XP 3/16/06

Instrument No:	43

INITIAL CALIBRATION REFERENCE

	ID	Date
Diesel		
Motor oil		
JP 5		
Alcohols		
~~Ethylene Glycol~~	EG43C10	3/10/06

Standards

Name	ID	Conc. (mg/L)
CH_2Cl_2	—	—
DCC	553C-07-12-3	100 ppm
LCS	553C-07-12-2	1000 ppm
H_2O	Organic free	—

Electronic Data Archival

Location	Date
☑ EZC_2_Diesel	3/20/06 XP
☐	

Comments:

Analyzed By: XP

Disposed on: 3/17/06 By: XP

This page is checked during the data review process.

MAXXAM LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501